UNIVERSITY RANKINGS '04

MACLEAN'S

CANADA'S WEEKLY NEWSMAGAZINE | www.macleans.ca

NOVEMBER 15 2004

EXCLUSIVE NEW SURVEY

HOW GRADS GRADE THEIR SCHOOLS: THE INSIDE STORY

BY ANN DOWSETT JOHNSTON



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NOVEMBER 15 2004



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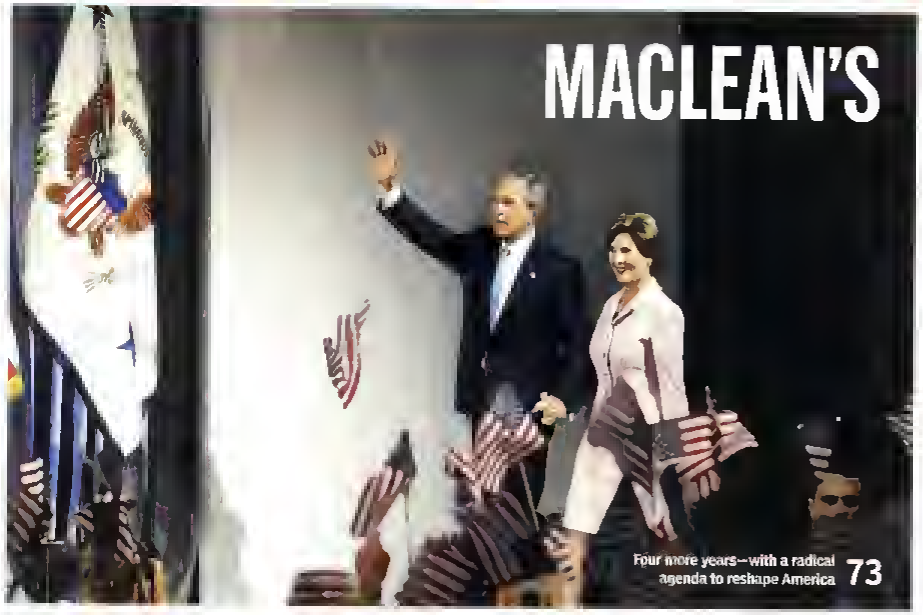
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SO HOW WAS IT *REALLY?*

For years, university heads have said we should talk to their grads—so we did

A FRIEND was recently approached as part of a search process by a university looking for a new dean. He's well-qualified, bright, supremely well-connected, with experience in business and the academic sector—and passionate in his enthusiasm for that university. He was also emphatic that under *no* circumstances was he interested. The reason, he complained, is that "too much of the job is about raising money, and not enough is about doing any hands-on work on academic issues." And, he added, he wants to "keep my private life private—and enjoy my weekends."

That's not only a familiar lament on the campus scene these days, it also summarizes the challenge facing universities in the modern era—and explains why it's no longer fair to apply that old chestnut about ivory tower academics being removed from the real world. To oversee a university these days, a good chancellor or dean has to have qualities that include first-rate administrative skills, a deft touch at human relations, a pocketful of degrees topped off by a Ph.D., a Rolodex that spans the high end of the academic, business, and federal and provincial political worlds—and, most important, the ability to raise massive amounts of money. In return for that remarkable skill set—which would entitle a person to run a multinational corporation—the successful candidate can expect a life of relatively low remuneration, relentless scrutiny and backbiting, and an endlessly intrusive social schedule, whether he or she likes it or not. (An acquaintance who was dean for years at another university said he knew it was time to quit when one of his kids expressed surprise at coming home one night and finding *no* invited guests.)

Taking the measure of academic life—whether through the eyes of a dean or a newly minted first year student—involves a mix of analytical and anecdotal information. Over the last 13 years, *Maclean's*, under Editor at Large Ann Dowsett Johnston, has provided precisely that in our university ranking each autumn, followed by our expanded guidebook in February. This issue, as every year, includes information ranging from comparisons of class sizes to library holdings to the average grade of entering students and the percentage who graduate. To that, we've added a new component—a survey of graduates measuring their satisfaction (or lack of same) with their university experience. That's certain to arouse new controversy—even though we're simply implementing an idea that's come up often in the past. As Ann writes: "More than one university president told us: if you want to judge us, why don't you just talk to our grads? You'll see how satisfied they are." Now they—and readers—get to find out.



Jones says goodbye

This issue is the last under Publisher Paul Jones, who leaves after a career that began at the magazine in 1975. Paul's rigour, intelligence, integrity and devotion to Maclean's—and Canadian magazines in general—made him a walking template within our industry for what a publisher should be. He's also—this, in the end, is the important, enduring thing—a great guy with a self deprecating sense of humour, ineffable decency and an astonishing array of interests covering everything from oenology to geneology. We're sorry to lose him—and blessed to have had him.

Anthony Wilson-Smith

response@macleans.ca to comment on The Editor's Letter

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It takes a special teacher to go to a student's home in the morning, rouse him from bed, and personally drive him to school. But this is exactly what Linda Lee did some mornings. Because Linda is prepared to do whatever she can to help her students succeed.

Until recently, there was no high school in the Aboriginal community of Fort McKay in northern Alberta. Students were faced with long bus rides and having to adjust to the city, if they chose to commute to the nearest school. Not surprisingly, the dropout rate in the community averaged 90%.

Recognizing the need to find an alternative, the community worked with Shell Canada to find an innovative solution. An E-Learning facility was created where students can access teachers and approved high-school curriculum on-line.

A program developed by Aboriginals specifically for Aboriginals was adapted. Linda Lee, the dedicated facility teacher, staffs the center. Encouraged by her passion and expertise, all of Linda's students proudly completed their first semester with honours.

As one of Fort McKay's closest neighbours, Shell Canada supports this facility and other local community initiatives.

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'The "Leaders and dreamers" special issue on innovation will be given a place in the Canadiana section of my library. We have every right to be proud.' --Ed Eggertson, Burlington, Ont.

Innovative pride

My heartfelt congratulations for "Leaders and Dreamers," your special commemorative issue on Canadian innovation. I am 71 and never before have I been so moved. I feel each and every school in Canada should have a copy of this to teach just how great Canadians are. Too often we take a back seat, but you've shown us we needn't. Thank you

Constance Dingman, Stoney Creek, Ont.

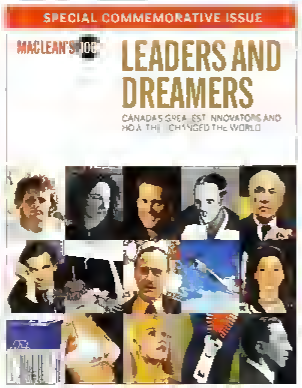
No recycling box for this one. Your special innovation issue has a permanent place in my reference library. I read it in one long sitting and again feel that we Canadians should be a little less modest. But—and there is always a but—what about the absence among your lists of leaders and dreamers of those folks who discovered oil in Petrolia, Ont.? From Hugh Shaw, who spent months bouncing on a wooden plank until the attached drill bit broke through rock below, to all those who took our Canadian know-how and showed the world from Saudi Arabia to South America how best to locate and extract their oil. Innovators all.

Derek Burrage, Nanticoke, Ont.

I was delighted with this issue, it is definitely a keeper. Missing in it, though, is an invention that will be familiar to all who work with noisy equipment—the liquid-filled plastic ring on all ear protectors or earmuffs. An audio team working on jet engines at the National Research Council in the 1950s came up with this handy device.

Douglas Millar, Campbell River, B.C.

"Leaders and dreamers" is a wonderful read and a fine reference. But where are the religious leaders whose work has, and continues to, shape our culture and its values? Where are J. W. E. Newbery, A. B. B. Moore, Rabbis Fineberg and Plaut, Alfred Gandier, Peter Bryce, Archbishop Ted Scott, Cardinal Leger, Sister Mary Jo Leddy, Cardinal Carter, Father Brébeuf or Bishop John Strachan? These days, religious systems and their values are held suspect by many



Canadians, but there is no question that our nation has been built upon solid teachings, community standards of thought and behaviour, rich and old traditions and the quest for the sacred.

Rev. Malcolm Sinclair, Toronto

As the only Canadian to scale its peaks twice, I am pleased that you included Mount Everest climber Pat Morrow on your list: he is a great adventurer and a true gentleman ("Peak performer," Sports, Mountaineering). But I wish that *Maclean's* would cease perpetuating the myths that Everest is "the world's highest garbage dump," and that you can pay your way up the mountain. Due to recent clean-up efforts, Everest is now more pristine than it was before Sir Edmund Hillary left the place in the '50s. And while money can secure a spot on a climbing team, all bets are off after base camp—one out of five summiteers dies on the trip and nearly 200 people have never come home from an expedition.

Dave Rodney, Calgary

Your special issue was a good one, but I am insulted and appalled, as must be every other Canadian who remembers how and when we really got medicare. In Anthony Wilson-Smith's Editor's Letter (*Maclean's* at 100), he wrote, "We as a people found the collective will to make health care available to everyone through medicare: it's something Canadians repeatedly cite, in polls and otherwise, as key to how we see ourselves." How could you write those words and fail to pay more attention to Tommy Douglas, who started it all?

Margaret Lawrence, Burnaby, B.C.

I must strongly disagree with your contention that Allan Dove developed the spiral Ardox nail for Stelco in 1954 ("Immersed in Canadiana," Commerce, Household). The spiral nail pre-dated 1954, but was expensive and difficult to make. My father, Roy Kelday, and Fred Hayden, both employees of Stelco, co-invented the process to make spiral wire in the early 1950s.

Eric M. Kelday, Brampton, Ont.

American rescue

Canada should assist Americans to get flu shots as long as the supply is such that the needs of Canadians can and will be met ("The great drug debate," Health, Nov. 1). But to deprive Canadians of their flu shots for financial gain or any other reason would be wrong. It boggles my mind that a country as advanced as the U.S. could have allowed such a shortage to develop. However, as good neighbours we should help if we can.

Bob Bastian, Fruitvale, B.C.

Of course Canada should help the United States, if we can, with flu vaccines. It is the right (Canadian?) thing to do.

Elizabeth Harvey, Toronto

As much as I would like to say no to the big bullies on occasion, I think giving the U.S. flu vaccine could help repair some hard feelings over our absence in Iraq. I agreed with our PM

A surge of pride | Canadians send in their innovation favourites

Thrilled to see an issue on our country's innovators, readers, in a most un-Canadian burst of pride, have responded by writing us to trumpet more Canuck heroes. Among them: renowned explorer Vilhjalmur Stefansson; scientist James E. Peebles, who helped create the field of cosmology; and Tommy Douglas, father of medicare. Who says Canadians don't know their history?

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Should we help ease America's flu shot shortage? Some say it is the 'Canadian' thing t

in not going to war, but why not help our nearest neighbours in a way that once again shows Canada's peaceful nature? Maybe it will soften their stance on a few key trade issues, like softwood lumber and BSE.

Myles Green, Coquitlam, B.C.

We should help the U.S. with the distribution of flu vaccines, because it represents the best of our two nations' relationship. While we (wisely) opted out of Iraq and may be (stupidly) getting in on the exorbitantly expensive and obsolete missile defence plan, we should work together on any initiative where human health is at stake. As well, with the relatively porous nature of borders these days, and particularly the Canada-U.S. border, any country's outbreak could quickly become a problem for the whole world.

Matt Murphy, Ottawa

Drugs vs. lifestyle

Great! Add statins to the drinking water and help prevent heart attacks and strokes—but first please encourage our overworked physicians in Ontario to explain to their patients what cholesterol is all about ("The cholesterol cure," Cover, Oct. 25). I am a community nurse and recently visited a patient discharged home on high doses of the "cholesterol pill." He had suffered a serious heart attack. He was continuing with his routine of eggs each morning, shocked to learn that two eggs contain 548 mg of cholesterol compared to 81 mg for 3.5 ounces of prime rib beef. I say we need more nurses teaching health promotion than physicians writing prescriptions for the cholesterol pill.

Cheryl Hanniman, Ottawa

Certainly there is a place for statins in reducing cholesterol. But maybe instead of increasingly prescribing these drugs to teens and children, we should educate and motivate them to pursue a healthier lifestyle—one that not only lowers their cholesterol, but also would head off obesity, hypertension, Type 2 diabetes, osteoporosis and many forms of cancer. A healthy lifestyle should be our first line of defence, with medication as an adjunct, not the other way around.

Don Hornicks, Coronary Health Improvement Project coordinator for Sarnia/Lambton, Ont.

It is well accepted that both high cholesterol levels and the cardiac stress (treadmill) test can provide valuable information about an individual's cardiovascular risk. However, what many people do not appreciate is that pregnancy routinely provides information about such risk. Women who develop any form of high blood pressure in pregnancy, or those who deliver a small-

> **A healthy lifestyle should be our first line of defence, with medication as an adjunct—not the other way around**

THOMAS ONDREY/THE PLAIN DEALER/AP

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for-dates baby, are at increased risk of cardiovascular events (such as heart attack and stroke) in the long term. Also, women who develop gestational diabetes have a 20 per cent lifetime risk of developing Type 2 diabetes that is persistent. We feel that women who develop these pregnancy complications should be the focus of more scrutiny with respect to classical cardiovascular risk factors, such as serum cholesterol levels. Why throw away such valuable information?

Drs. Laura A. Magee, Anne Marie Côté and Peter von Dadelszen, Vancouver

Naval strategies

Despite Peter C. Newman's essay, our need for a submarine fleet is as great today as it has ever been ("The submarine fiasco," Oct. 25). What we don't need are discarded, used subs, mothballed by others and then purchased in flea market deals.

John Finn,
Corner Brook, Nfld.

> **We don't need a fleet of used submarines, mothballed by others and purchased in flea market deals**

Many Canadians have come to the conclusion that since the perceived conventional military threat to Canadian interests is low, we no longer need military forces for operations other than anti-terrorism. But they forget that one of the principal reasons the conventional threat is low is that the Western democracies have the requisite military forces and are prepared. Eliminating part of that preparedness—by getting rid of our submarine service, for example—would only allow that threat to grow again.

Cmdr. Richard Archer (Ret.) Ottawa

Territorial blunder

Even though she is American and not a dual citizen, I'll bet that Katrina Brogdon—interviewed about her views on American politics in "Living up here, but thinking about home,"—knows that she lives in Whitehorse, *Yukon*, not Whitehorse, Northwest Territories as you wrote (Cover, Nov. 1). Living north of 60, you get used to that level of confusion in people from outside—but surely *Maclean's* knows?

Sheila Whiting, Amherst Island, Ont.



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MACLEAN'S BEHIND THE SCENES



ILLUSTRATION BY CRAIG HALL

TELL US WHAT YOU THINK

A little bit of your time could have a lot of impact on the pages you're reading. Like what you see in *Maclean's* and at *macleans.ca*? Or maybe you don't? If you have an opinion about our magazine or website, we want to hear it. *Maclean's* is looking for readers like you to join our Advisory Panel.

***Maclean's* conducts online reader surveys 12 times a year. A sample of our Advisory Panel is contacted via email with an invitation to complete a questionnaire on a variety of issues and to offer thoughts on everything from the stories we choose to write about, art design, overall editorial treatment, and much more. Every month, *Maclean's* editors meet to review and consider the panel response.**

The feedback from the Advisory Panel provides a wider range of opinions and perspectives than letters to the editor or focus groups alone, says panel manager Kathrin Menge. "We can tell pretty quickly what's hot and what's not with readers," she says.

Editor Anthony Wilson-Smith says the feedback from the Advisory Panel is an invaluable source of information for his team. "A successful magazine cannot operate in a vacuum: it has to listen every bit as much as it talks to people," he says. "The importance of the reader panel is that it functions as a sort of report card on how we're faring in general—not just on certain topics, but in reflecting the needs, priorities and aspirations of our most faithful and devoted readers."

Participation in the Advisory Panel is completely voluntary and kept strictly confidential. So please take this opportunity to help shape the future of the magazine and its website.

Help shape what's inside *Maclean's* by registering as a member of the *Maclean's* Advisory Panel at *www.macleans.ca/ap*. For further information about this article, contact behindthescenes@macleans.ca

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UPFRONT

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ScoreCard

KEMOSABE
Many interpretations of Tonto's famous greeting: trusted scout, white guy, horse's ass. Now, after much study, Nova Scotia's top court concludes term not racist in case involving store owner addressing Mi'kmaq clerk. Still, some salutations better left between friends.

DEMOCRACY
Wild U.S. election ride assaults ear drums, divides American family, breaks hearts. Proves yet again the excruciatingly pure power of the ballot box.

MIRABEL
Last passenger jet departs Montreal's white elephant, leaving the barely used carcass a ghost town of chrome, marble and goofy disco-era dreams. Has ultimate distinction among world-scale airports: no problems parking.

FLIES
Dalhousie biologists set science world abuzz, claim to be first to clone insects. Ordinary folk less amused: you mean there aren't enough already?



Middle East | The world watches as Arafat hovers

Even as he lay in a Paris hospital—"he's in a coma," a close aide confided, "he may or may not wake up"—Yasser Arafat continued to symbolize all that is uncertain about the Middle East. Would he survive the mysterious blood illness that has laid him low? At 75—35 years at the top of Palestinian politics, no picnic that—he has already defied the odds. Look at the long list, nine Israeli prime ministers, who've come and gone. But even if he did pull through, his illness had added an extra layer of intrigue in a region already roiling in it.

Bracing for Arafat's death, Israel stepped up its security, restricting entry by all Palestinian men under 50. The many factions in the Palestinian Authority, the PLO and Arafat's own group, Fatah, were reported to be jostling for power. The West, too, was filled with questions. The Palestinian leader is viewed much differently in Europe's capitals than in Washington. Where and with what acknowledgement would you bury a man who is a hero to many—a Nobel Peace Prize winner, no less—and a terrorist to others? Holy Jerusalem seemed out of the question: Israelis wouldn't stand for it, and some Muslim religious leaders were reportedly also balking. So, perhaps, was Gaza, a dangerous place and an embarrassment to the Arab world with its labyrinth of refugee camps. Outside the Paris hospital, and in the rubble of Gaza's camps, Arafat supporters maintained their vigil. In fact, the whole world was keeping watch.

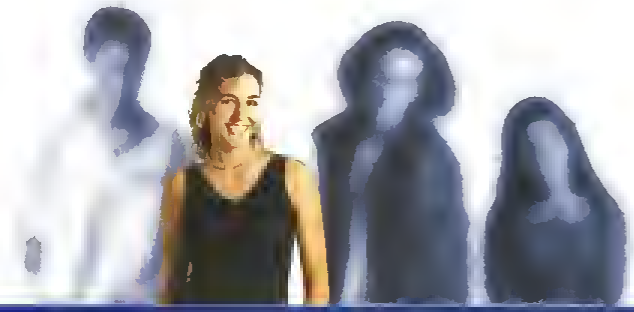
A Muslim woman lighting a candle outside the Paris hospital where the ailing Palestinian leader lay in a coma

Quote of the week | 'I think we're done with Bobby.' MARC JUTEAU, co-owner of Classic Collectibles, which auctioned off the latest Bobby Hull memorabilia—a partial plate of three false teeth, last used in 1959—for $575.96

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Mansbridge on the Record



ONE DOWN, ONE TO GO

Bush won the election, but can he now implement a plan to win the Iraq peace?

THE COVER OF *The Economist* last March 20 certainly made one pause—four aces spread across the page. On each card, a face: George W. Bush, Tony Blair, Australia's John Howard and Spain's José María Aznar—the four leaders of the major coalition partners involved in the invasion of Iraq. Through Aznar's face a graphic artist had slashed a giant red "X," and above the cards the headline asked, "One down, three to go?" Aznar had just lost the Spanish election where voters were strongly opposed to the Iraq war. And they were hurting. Just days before, 191 Spaniards had been killed in the Madrid train bombings. The new prime minister, Jose Luis Rodriguez Zapatero, moved quickly and ordered the pullout of Spanish troops from Iraq.

The *Economist* was asking what the world was asking: would Spain trigger a domino reaction? Well, it's taken a few months, but the answer is starting to become clear, and it's no. Australia, despite a population divided over the war and suffering itself from the losses in the Bali bombing, just last month re-elected Howard to his fourth term. And now, a bitterly divided U.S., in an election that was close but not as close as some predicted, has given Bush a second mandate. The final piece of the puzzle will come early next year when Blair is expected to face the judgment of voters on his handling of Iraq, where British troops still fight—and still die.

But already the page is turning on the Iraq story—from why the coalition went to war and whether it lied to do so, to what to do now. Iraq is a mess, and it sinks farther into the abyss of chaos with each day. With the campaign behind him and with a two-month hiatus before his inauguration for a second term, Bush may need a new plan and quite possibly a new team to conceive and implement it.

Where to start? The conventional wisdom has Colin Powell leaving—the affable secretary of state that the Bushies never seemed comfortable with. Powell has almost slipped off the radar screen, never the same since intelligence officials misled him about Iraq's weapons' capabilities just before a key United Nations session in early 2003. It's sad for a man of his background, a star general who once had presidential aspirations, that his days in the Bush inner circle seem over. Can his one-time voice of moderation be replaced? If Bush truly wants to hear differing opinions, perhaps this is where he goes the non-partisan route and places a Democrat in the job.

What about Donald Rumsfeld, the architect of the Iraq strategy that's resulted in such a mess? Bush seems steadfast in his support of his defence secretary, but can he afford to continue that loyalty? And then of course there's the other Iraq mastermind, Dick Cheney. You have to wonder about his continuing influence—in the campaign's last week, Cheney disappeared, shipped off to Hawaii because Republican strategists argued that traditionally Democratic state was vulnerable. Really? John Kerry won it handily. But the trip did keep Cheney away from the mainland microphones. Wonder where he'll be going in the next four years? Alaska? Guam?

> "If the President truly wants to hear other opinions, perhaps he will replace Secretary of State Powell with a Democrat

Bush escaped the red "X" on Nov. 2, now, he's got to find a way to keep it off his legacy. And any way you cut it, that legacy starts and ends with Iraq. M

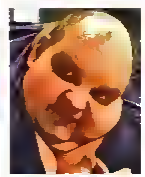
Peter Mansbridge is Chief Correspondent of CBC Television News and Anchor of *The National*.
To comment: letters@macleans.ca

FaceTime

Guardian



He was still in his teens when he was recruited to the Inuit Rangers. That was 1949, as the Cold War was heating up. Peter Kunilusie, from what is now Clyde River, Nunavut, was given a TB test and a war-surplus .303 rifle and sent to guard Canada's forbidding North from Soviets, a task he performed for 55 years. The last of the original Rangers—and one of the last Inuit hunters still conversant with the old skills—Kunilusie, 74, retired officially to an honour guard of soldiers. But he says that as long as he can he will continue to teach young natives, and anyone else who cares to listen, the vagaries of northern survival.



Fat guy

Four months ago, when he checked himself into hospital, 42-year-old Patrick Deuel of Valentine, Neb., a former restaurant manager, tipped the scales at 1,072 lb. Oddly enough, he was malnourished, because so many of his calories came from carbs and fatty foods. He was also bedridden and gasping for breath. Doctors agreed to perform gastric bypass surgery to reduce the size of his stomach—but only if he was healthy enough to walk around the ward. That took three months. But now he's had the bypass and is doing fine, though doctors did have to supersize the surgical bed.



Still stoned

Looking haggard and puffy, former Calgary Flames standout Theo Fleury admitted he is still battling the drug and alcohol demons that appear to have cost him his NHL career. Fleury, 36, is suspended indefinitely by the NHL for a third violation of the league's substance abuse policy and said he is no longer attending rehab. "I'm not sober today," he told Rogers Sportsnet. "Do I want to be sober? Yeah, eventually, at some point, I want to be sober." Fleury said both his mother and father battled similar addictions. A 15-year veteran, he sat out last season entirely because of his drug suspension, saving the Chicago Blackhawks his US$4.5 million salary.

CANADIAN FORCES NORTHERN AREA/CP; STUART VILLANUEVA/ARGUS LEADER/CP; AYNSLEY FLOYD/AP

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WORLD

FALLOUT The U.S. election derailed more than Democrats' dreams. A proposal for a Florida fast train, to be built by Montreal's Bombardier Inc., was defeated by state voters alarmed at its huge price tag. Canadian ranchers were happy, though, that powerful Democratic Senator Tom Daschle of South Dakota was defeated. He was seen as opposing the full resumption of cross-border trade in cattle, halted since the mad cow scare over a year ago.

The loonie also surged past US83 cents as the American dollar dropped in the wake of George W. Bush's victory.

DARFUR The Sudanese government shocked the UN and its African neighbours by sending troops to forcibly relocate refugees from camps in southern Darfur province, scene of a huge humanitarian crisis. Sudan said it was doing this to root out profiteering, but a UN report accused Khartoum and sympathetic rebel groups of trying to ethnically cleanse certain areas, and of war crimes "on a large and systematic scale."

RELIGION Conservative prelates in Africa, alarmed at Anglican Church support for gays in the West, voted to establish their own school of theology, a likely first step toward an official split in the church.

Dutch police arrested nine so-called militant Muslims after filmmaker Theo van Gogh was shot and stabbed to death on an Amsterdam street. Van Gogh, 47, a distant descendant of the famous painter, aired a controversial television film in August documenting abuse against Muslim women.



SUPER OGRE Dressed as Shrek for a Halloween party, Lethbridge Const. Mark Smallbones didn't expect to chase down a robbery suspect on the way. The man didn't expect to be captured by a green-faced ogre either.

DESERTION He is now a sickly 64-year-old, but he was young, scared and drunk when he abandoned his unit on a freezing hillside to cross into North Korea 40 years ago. Wishing to return to the West to live with his Japanese-born wife, Charles Jenkins was given 30 days in military jail and a dishonourable discharge, a remarkably light sentence for desertion from the U.S. army. His lawyer argued that four decades in North Korea was punishment enough.

PLUTONIUM A Russian scientist turned in 400 gm of radioactive plutonium he had stored in his garage for nearly a decade, the latest example of the former Soviet Union's nuclear arsenal gone astray. He expected to be thanked for his diligence, instead, he may face criminal charges.

HEALTH

FLU VACCINE Canadians have been getting their flu shots in record numbers, and that's resulted in shortages with health organizations in at least three provinces: B.C., Saskatchewan and Nova Scotia. As a safeguard, Ottawa is buying an additional 900,000 vaccines.

Meanwhile, U.S. scientists reported that supplies can be stretched up to fivefold, with the same level of protection, by diluting the vaccine and injecting it into the skin instead of muscle. The technique, however, is considered too experimental—it hasn't been tested on anyone over 60—to be used this year in the U.S. despite the huge shortfall there.

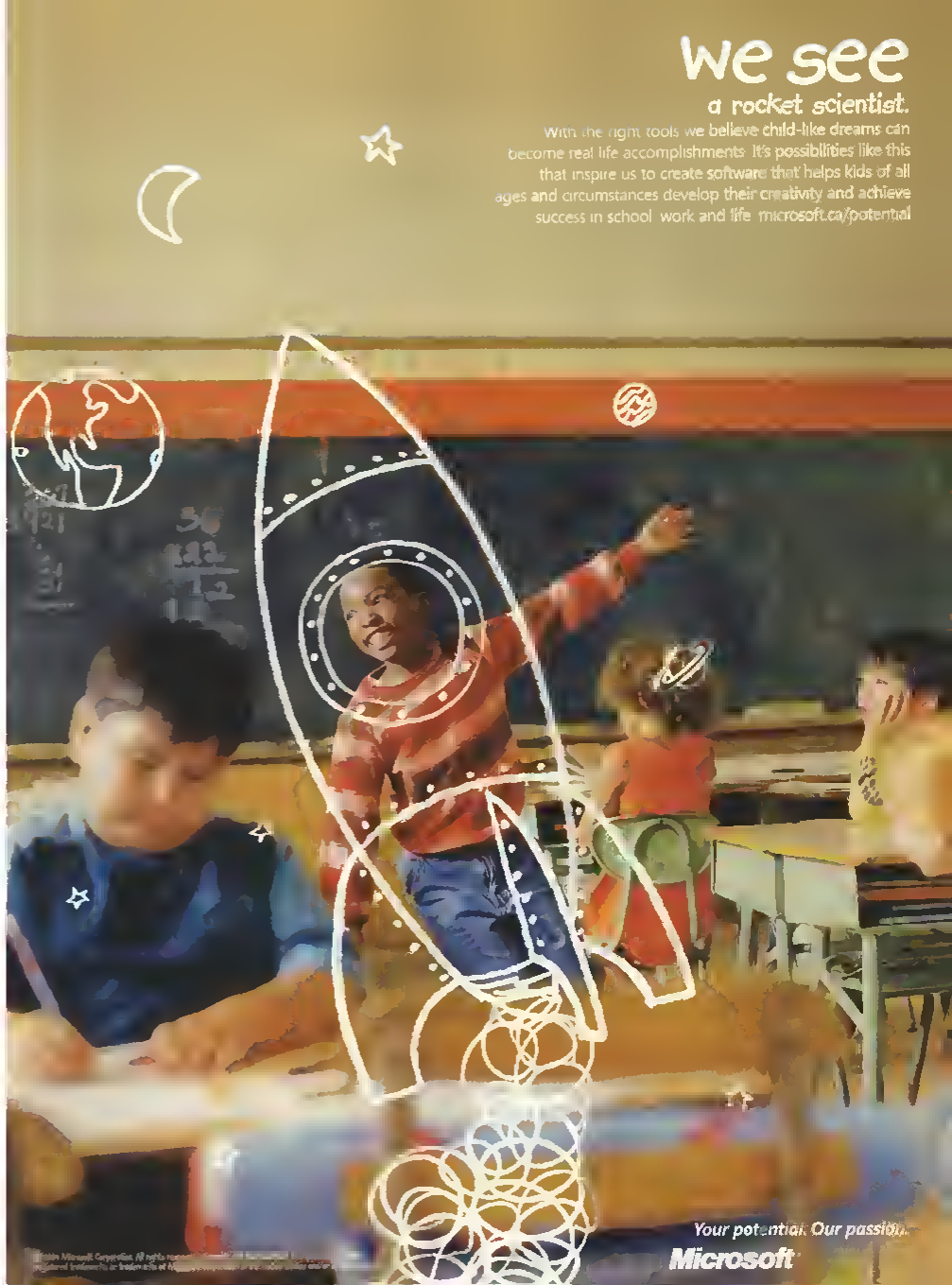
STEM CELLS Researchers at Toronto's Hospital for Sick Children have found the kind of multi-potential stem cells, like those harvested from unwanted embryos, hidden in the hair follicles of adult skin. From a non-controversial source, these stem cells may be especially useful in treating brain disorders because they appear to be able to transform into neurons normally found only in the brain and other nervous tissue.

COMBO Like a coffee with your morning cigarette? Might want to think twice. Greek researchers say caffeine and nicotine appear to work in tandem to harden the arteries and restrict blood flow to the heart, and do more damage than either one on its own.

BY GREG PERRY



PHOTOGRAPH COURTESY OF CONSTABLE DAVID EASTER OF THE LETHBRIDGE REGIONAL POLICE SERVICE



CANADA

DAYCARE Ottawa will give the provinces $1 billion next year for a new national child care program, Social Development Minister Ken Dryden said after two days of meetings with his provincial and territorial counterparts. Quebec's popular $7-a-day program was the model Dryden championed, but Quebec wants its share of the federal money with no strings attached.

PEACEKEEPERS After 13 years, 40,000 tours of duty and 25 deaths, Canadian soldiers are leaving Bosnia-Herzegovina, now relatively quiet but previously the scene of some of the most vicious fighting involving Canadians since the Second World War.

SENTENCED Visibly miffed at the nine-month sentences handed to a foster mother and father who kept their two boys confined for long periods in cage-like cribs, Ontario Court of Appeal judges upped the punishment to five and four years respectively.

HOCKEY BY THE NUMBERS

THE LOCKOUT

Percentage of Canadians who, according to a Rogers Media poll, say they do *not* miss having NHL hockey to watch	67%
And who do they blame for the lockout	
Mostly the players	35%
Mostly the owners	20%
Both equally	22%

SOURCE: POLLARA INC., SAMPLE SIZE 1,262
MARGIN OF ERROR ± 2.8%

Once a hometown hero, former NFL receiver Tommy Kane, 40, of Montreal, was given 18 years for killing his wife, Tammara Shaikh, in the fall of 2003 in a particularly brutal slaying.

FAITH Stressed out United Church ministers have asked the Canadian Auto Workers to help them unionize, saying they need protection from abusive parishioners, low wages and lack of job security.

SAME SEX Gay couples can now tie the knot in more than half of Canada's provinces and territories after Saskatchewan became the sixth province to allow for same-sex marriage.



ACQUITTED Seen as a boon to the right-to-die movement, 73-year-old grandmother Evelyn Martens was found not guilty by a jury in Duncan, B.C., of helping two seriously ill women kill themselves. Arrested with a homemade suicide kit, Martens appeared to have confessed her involvement to undercover RCMP. But the case swung on the jury's perception of her motive.

MARIJUANA Ottawa revived its bill to decriminalize pot possession—now being referred to as "alternative penalty frameworks"—so that adults caught with 15 gm or less of marijuana will get a $150 fine, while those under 18 will pay $100 rather than face criminal prosecution. A companion bill allowing police to demand blood or urine samples from drivers they suspect of drug impairment was also introduced. Some legal groups, including the Canadian Bar Association, are doubtful that granting police the power to demand bodily fluids after a roadside stop will survive a court challenge.

SEX OFFENDERS A 30-year study of pedophiles and other sex offenders who were caught in the late 1960s and early 1970s found that nearly 90 per cent reoffended, a much higher rate than correctional officials normally cite. The study, by University of Toronto psychiatrist Ron Langevin, was based in part on hospital records in which individuals confessed to doctors about sex crimes that were never prosecuted.

MONEY LAUNDERING According to the federal agency that tracks dirty money, Canada is an increasingly popular place for criminals and possibly terrorists to launder shady transactions. Almost $700 million in suspect money was investigated in 2003, up from $460 million a year earlier.

FOR THE BLIND, WINDOWS ON THE WORLD

Three years ago, the folks at the Canadian National Institute for the Blind went to Microsoft Canada looking for financial help to upgrade their library of audiotapes and books in braille. Instead they were taken on a digital revolution. Microsoft Canada president Frank Clegg quickly realized the giant software maker could do more than simply raise money. Its real contribution would be to create a standardized software that could almost instantly put books, newspapers and other printed material onto CDs or computers that convert text to speech. The result: the CNIB's Digital Library, with more than 10,000 audio books and 40 newspapers and magazines, and its Children's Discovery Portal—an online place for blind kids to play games, do homework or connect in password-protected chat rooms.

They are the envy of the world but, happily, perhaps not for much longer. Microsoft chairman Bill Gates has invited representatives from 29 so-called alternative libraries around the globe to his Redmond, Wash., headquarters to adopt the CNIB software and so take the first step toward a virtual library for the blind. For CNIB president Jim Sanders, 57 and totally blind since 1983, that would be a dream come true. Because of different national copyright laws and, until now, no common system for recording and cataloguing, "we've wasted so much scarce resources duplicating each other's efforts," he says. Should international libraries for the blind take up the system, the roughly 105,000 visually impaired Canadians, not to mention the three million others who are physically incapable of holding books, would have a true window on the world.



SHERYL NASLER/CP; CHUCK STOODY/CP

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Mary Janigan | ON THE ISSUES



UNCLOGGING THE BORDER

U.S. crossings could be smoother, if Ottawa had the courage to take some obvious steps

ANY CANADIAN venturing across the border these days knows that smooth passage remains an iffy proposition. Huge lines still inch toward U.S. immigration at Toronto's airport, sometimes spilling out the hall doors. Canadian Trucking Alliance members now build in a two-hour window to cope with the border's unpredictable nature. So it's no wonder many business leaders now fret that another major terrorist incident in the U.S. will shut the border and cripple our economy. "Progress on the so-called smart borders initiative is not happening nearly quickly enough," says Tom d'Aquino, president of the Canadian Council of Chief Executives. "If there is another attack, who would want to say, 'We had all the right ideas, why didn't we act more quickly?'"

It's not that our leaders have complacently ignored the 126 million people and 13 million trucks that crossed by land last year. Public Safety Minister Anne McLellan and her U.S. counterpart, Tom Ridge, recently reported more progress in implementing their three-year-old plan to pool security efforts—and expedite crossings for low-risk people and freight. Behind the scenes, there are bureaucratic drones who have toiled on little else since the 2001 terrorist attacks.

But the Paul Martin government is uneasy about putting too much public emphasis on border co-operation—if only because many Canadians are unwilling to draw closer to the U.S. The trouble is that this reticence is hindering the drive for better infrastructure such as highway expansion, mutually accepted product regulations and freight pre-clearance as the shipment is loaded. And no one dares to mention the possibility of national ID cards with biometric data.

> **Delays entering the U.S. are imposing extra costs on manufacturers and exporters and affecting their investment decisions**

Too bad. In a recent survey, the Canadian Manufacturers & Exporters association asked its members about their border hassles. More than 60 per cent of the 800 respondents said delays are imposing major costs. Worse, 45 per cent said they're affecting their investment decisions. In frustration, the lobbyist called for the creation of a working group of U.S. and Canadian regulatory agencies and private sector members. "They would constitute a kind of SWAT team," says CME chief economist Jayson Myers. "They would look at a particular problem in a coordinated way, make recommendations and then make sure it's done." So far, no action.

What do we do? Last month, the prestigious U.S. Council on Foreign Relations set up an independent tri-national task force on regional integration, the first in its history. Mexican, American and Canadian members such as former deputy PM John Manley will look at five areas, including security enhancement—and report by next spring. If Ottawa is hesitant about pushing the border as a key priority now, it should seize upon the report's findings as an excuse for concentrated action. Start with practical measures. Put the provinces and the cities together—and hammer out a timetable for highway expansion. Or figure out how to simplify the application process so that more truckers will apply for FAST cards, which grant speedy crossing to low-risk drivers.

If the public objects to a single national ID card, why not agree with the U.S. to accept a limited number of cards at the border, including drivers' licences that could hold biometric data? Forget politics: let's make the smart border smarter. Fast. M

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Passages

INDUCTED Financially strapped and hidden away in Toronto's Exhibition Place, Canada's Sports Hall of Fame took last year off. But it bounced back with a slate of distinguished inductees: hockey coach **Scotty Bowman**, 71, the late **Jack Donohue**, former coach of the men's national basketball team, champion sprinter **Donovan Bailey**, 36, distance runner **Abby Hoffman**, 57, hockey great **Larry Robinson**, 53, and gymnast **Lori Fung**, 41.



DIED **Ivan Head**, a brainy and aloof Calgarian who was foreign affairs guru to prime minister **Pierre Trudeau** from 1968 to 1978, died at 74 in Vancouver. A huge proponent of Third World development, Head was a key instigator behind Canada's recognition of the People's Republic of China in 1970, an act that shocked the U.S. at the time.

DIED Former Nashville Predator forward **Sergei Zholtok** died of heart failure while playing professional hockey in his native Latvia during the NHL lockout. He was 31 and a free agent. He reportedly collapsed and died on his way to the dressing room with just minutes left in the game.



DIAGNOSED An indefatigable campaigner, **Elizabeth Edwards**, wife of Democratic vice-presidential challenger **John Edwards**, learned from doctors that she had invasive breast cancer just hours after the Democrats conceded the U.S. election. The 55-year old Edwards found a lump during the last week of the campaign but put off seeing a specialist until after the vote.

WON Answer: the winningest game show contestant of all time, taking home US$2.19 million in 66 appearances and still undefeated. Question: who is Jeopardy! champion **Ken Jennings**, the 30-year-old Mormon software engineer from Utah?

FRED CHARTRAND/CP • CHARLIE RIEDEL/AP



Health | DAVID BUTLER-JONES, 'DOCTOR TO THE NATION'

ROUSING A NATION OF COUCH POTATOES? 'OH, THAT'S EASY.'

GET USED TO THIS FACE. The next time Canadians are confronted with a deadly threat like SARS, you'll be seeing a lot of David Butler-Jones in the news. The 51-year-old former family physician recently became the country's first chief public health officer, heading up a new agency based in Winnipeg. He's charged with planning for, and responding to, everything from the complexities of flu season to a potential bioterrorist attack. A father of three, he will also serve as a national scold, pressing us to get more active and eat better.

Even during the worst days of SARS, we were told this wasn't the pandemic many had been warning of, the one that could kill millions worldwide. What's the next big threat?
Nature is very versatile and creative, so it's hard to predict. But most likely it will be a pandemic of influenza.

What are we doing to prepare for that?
We're working with our colleagues internationally toward better surveillance. Laboratories around the world are trying to understand what makes these pandemic strains so deadly. We're also seeking to improve communication between provinces and Ottawa, and with essential-services providers in the community. One thing we learned with SARS is, a crisis is no time for these people to be meeting for the first time.

More than 1,000 Canadians contracted the West Nile virus in 2003, but only a handful fell victim this year. Was that threat overblown?
No. The cold weather this summer suppressed the mosquitoes that carry West Nile. People weren't out as much and tended to cover up. If we have another hot, dry summer, as in 2003, we may see more cases.

A lot of things could potentially go wrong on your watch. Do you have sleepless nights?
Not over any personal sense of threat. But I do lose sleep sometimes wondering if we're doing all the things we need to do.

What about bioterrorism? How prepared are we for that kind of attack?
The greatest risk is the smallpox virus, because of its ability to spread and the severity of the disease. We have over six million vaccine doses available and we've done a trial to see how quickly we could get them to the outbreak site. I'm fairly confident if this occurred for real, we could deal with it.

How do you plan to get a nation of couch potatoes off their rear ends?
Oh, that's easy. The challenge isn't turning people from couch potatoes into marathoners. Little things make a big difference—just foregoing a can of pop or going for a walk.

What's your own fitness regimen?
I used to run, until I did in my knees skiing. Now I walk, swim and bike.

Childhood obesity: what needs to be done?
The solutions are pretty basic: parents weaning kids off video games, encouraging daily physical activity, stocking schools with healthier snacks. It's about changing our values.

Can you give an example of public policy making us healthier?
Smoking bans. Could you have imagined, 20 years ago, governments not allowing people to smoke in public places? What tipped that was the growing understanding about the effect of second-hand smoke. So it's not about health police, it's about changing minds. BRIAN BERGMAN

PHOTOGRAPH BY TOBIN GRIMSHAW



PHOTOGRAPH BY PETER BREGG/MACLEAN'S

HOW GRADS GRADE THEIR SCHOOLS

Over 40 days this fall, 12,334 recent graduates delivered a report card on their university experience. Their message deserves national attention. By ANN DOWSETT JOHNSTON

FIRST, LET ME START with a little history. It was 13 years ago this fall that *Maclean's* first ventured into the complicated, controversial and, yes, highly political business of ranking Canadian universities. The motivation was partly personal. Two editors, both fathers of boys in their last years of high school, were hungry for some comparative information. Basic facts—like average entering grades and student-faculty ratios. Data on scholarships and bursaries, per student. Information they couldn't find in those glossy campus brochures. They set about doing a top to bottom ranking of 46 universities across the country and, as it turned out, they weren't the only ones looking for facts. When that first ranking hit the newsstands, it sold out in three days. Three hours, in some cities. So unprepared was *Maclean's* for that response that it took weeks to arrange a second printing. Barbara Frum called the magazine to rave. "Everyone's talking about it," she told one editor. "It's a bombshell."



Studying pharmacology in Western's Conron Hall

No kidding. While that first ranking struck a huge chord with Canadians, who were more than curious to learn how their publicly funded institutions measured up, the university community reacted with howls of outrage. Even David Johnston, then principal of the top-ranked McGill, conceded that the ranking was a little "blunt." Others were less polite, calling the data completely meaningless, the methodology fatally flawed. The country might not have any Harvards, but neither did it have any Pineapple U's. All Canadian universities were created equal, all were universally good—if not excellent—and what *Maclean's* was doing was punitive in the extreme.

And most punitive of all? Lumping a diverse group of universities, from little Mount Allison in Sackville, N.B., to a massive research powerhouse like the University of British Columbia, in a single top to bottom list. Like comparing apples with pears and oranges. More than one university president told us, if you want to judge us, why don't you just talk to our grads? You'll see how satisfied they are.

Still, there were those who encouraged *Maclean's* to improve and continue. "You've precipitated a process that is very useful," said David Strangway, then president of UBC. And so, in 1992, *Maclean's* editors went back to school. Over a period of six months, two of us crossed the country, doing a crash course in higher education, consulting with university officials and experts in every region. With help, we sorted the apples, pears and oranges, creating three distinct peer groupings of Canadian universities—groupings whose titles are now part of the popular lexicon: Primarily Undergraduate, for those largely focused on undergrads; Comprehensive, for those offering a wide range of undergrad and graduate programs, plus professional degrees; and finally, the Medical-Doctoral category, for those universities with all that the Comprehensives have to offer, plus medical schools.

Over those same six months, we hammered out the finer details of 22 ranking indicators, measures of excellence. Above all, the one we wanted to nail down was a measure of graduate satisfaction. Or, to use

MEASURES OF EXCELLENCE

While fewer than half of the 12,334 graduates were fully satisfied with certain key aspects of their academic and extracurricular experience, more than three-quarters gave a ringing endorsement to the benefits of going to university.

QUESTIONS ON QUALITY

On the first six questions, the graduates were offered a choice of five responses: very good, good, poor, very poor and no opinion. The figures below represent the percentage of participants who responded "very good."

1	Teaching and Instruction	52%
2	Learning Environment	49%
3	Library Resources	44%
4	Student Services	35%
5	Extracurricular Environment	38%
6	Entire Educational Experience	60%

QUESTIONS OF ENDORSEMENT

In responding to the final two questions, the graduates were offered a choice of five responses: definitely yes, probably yes, probably not, definitely not and no opinion. The figures below represent the percentage of participants who responded "definitely yes."

7	Would you recommend this university to a friend or relative interested in a similar course of studies?	66%
8	Thinking back on your time at university, do you feel this experience was of significant benefit to your life today?	77%

ranking lingo, the big "output measure." It eluded us: the costs were prohibitive and the privacy issues were too complex. Instead, we opted for a less than-perfect surrogate—alumni giving.

When that second ranking appeared in 1992, Mel Elfin, the avuncular founding editor of the *U.S. News & World Report* rankings, called to congratulate me on the changes we had made. But he also offered a stern word of advice: "Don't publish your rankings every year. Canada's too small. There aren't enough universities, and they're all public. Nothing will ever change."

Well, as it turns out, Mel couldn't have been more wrong. When it comes to post-secondary education in Canada, the whole world has shifted since the early '90s. What we have witnessed is nothing less than a revolution—a revolution on a global level, a national level and, most definitely, on a personal level. On a global level, there has been a knowledge revolution: brains are now the commodity with which we compete. On a national level, universities and their students have weathered a funding revolution: between 1992-93 and 1997-98, governments in Canada slashed $12 billion out of post-secondary operating budgets. And while there has been some reinvestment, the overwhelming growth in participation has meant that government funding per student has never been lower in Canadian history. In 1992, per-student funding was $10,300. Today, it sits at $8,000.

In fact, in constant dollars, governments are providing the same total investment as they did in 1992. The big problem? There are an additional 215,000 full-time students in Canadian universities—and roughly no change in the number of full-time faculty to teach them. Meanwhile, the cost of going to university has gone through the roof.

In other words, Mel, *everything* has changed. And for that reason, we decided this year it was essential to seek out the voice of the one group we were most interested in hearing from: namely, recent graduates of Canadian universities.

We wanted to know: just how satisfied were they with their university experience? With the teaching and the learning environment? The libraries? The student services? How about the extracurriculars? Would they recommend their alma mater to a friend or relative interested in the same sort of

THE *Maclean's* UNIVERSITY GRADUATE SURVEY: HOW IT WAS DONE

The graduates were randomly selected from the classes of 1999, 2000 and 2001. They were chosen by each of the universities using guidelines developed by *Maclean's* and its advisers. Angus Reid, president of Angus Reid Consultants, developed a stratified random sampling plan for each of the 46 participating universities. These guidelines specified the number that would be invited to participate, both at the undergraduate and graduate level, by year and program, and how the sample was to be chosen.

Each university then sent letters to the selected grads, inviting them to participate. To ensure that only those who had been chosen could take part, each grad was provided with a unique personal identification number. This PIN and the accompanying university identification number were required to access the telephone-based interactive voice response (IVR) survey.

In the end, there was a 17-per-cent response rate. The results, when presented for all universities, were accurate within 1.15 per cent, 19 times out of 20, while the individual institutional accuracy varied from plus or minus 4.5 per cent to plus or minus 8.85 per cent. It should be noted when interpreting results, there may be non-response biases if certain groups of grads were less likely to participate. In order to minimize these biases, the survey data were statistically weighted by program within each university.

According to Reid, the overall response rate exceeds industry norms for this type of survey: "It's rare to obtain better than a 10 per cent response rate from surveys sent through the mail. The innovative use of the telephone and the obvious interest of graduates in this important subject likely accounts for this high rate."

Getting this survey up and running involved experts in Canada, the United States and Mexico. In Toronto, the project specifications were designed by McDougall Scientific Ltd., the data management firm in charge of the survey. McDougall Scientific partnered with Telanet Canada Inc. to launch a project-specific IVR system, one of the first of its breed in Canada. The programming was outsourced to a division of Nortel Networks Ltd., based in Bohemia, N.Y., in conjunction with Nortel developers in Mexico City.

Before launching the survey, *Maclean's* commissioned an independent ethical review of the project. This was handled by the ethics review committee of ethica Clinical Research Inc. of Montreal. The committee gave the survey its unconditional approval.

SURVEY CONSULTANTS Angus Reid (Angus Reid Consultants), Shahrokh Khorram (Nordic Research Group)

TECHNICAL TEAM Janet McDougall, Hong Chen, Drew Finnie (McDougall Scientific Ltd.), Dan Silverman (Telanet Canada Inc.)

ASSESSING THE CLASSROOM AND BEYOND

Grads of many small Primarily Undergraduate universities were particularly satisfied when grading teaching and instruction at their alma mater. In fact, 10 of the institutions in the top 15 spots have a full-time student population of 5,000 or less. Similarly, graduates from universities in that category were also among the most enthusiastic when assessing the total learning environment.

TOP HALF	VERY GOOD (PER CENT)
Mount Allison	86
Cape Breton (UCCB)	82
St. Francis Xavier	80
Nipissing	78
Bishop's	76
Winnipeg	74
St. Thomas	73
Acadia	71
UPEI	69
Trent	69
Guelph	68
Mount Saint Vincent	66
Saint Mary's	66
Western	66
Brock	65
Queen's	61
Wilfrid Laurier	61
Lethbridge	60
Waterloo	59
Saskatchewan	58
McMaster	57
Sherbrooke	57
Victoria	57

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Mount Allison	86
Cape Breton (UCCB)	82
St. Francis Xavier	80
Nipissing	78
Bishop's	76
COMPREHENSIVE	
Guelph	66
Waterloo	59
Victoria	57
Memorial	53
Carleton	51
Simon Fraser	51
MEDICAL DOCTORAL	
Western	66
Queen's	61
Saskatchewan	58
McMaster	57
Sherbrooke	57

TOP HALF	VERY GOOD (PER CENT)
Mount Allison	84
Acadia	79
St. Thomas	77
Bishop's	75
Nipissing	72
St. Francis Xavier	71
Cape Breton (UCCB)	68
Trent	66
Western	67
UNBC	67
Sherbrooke	65
Guelph	66
Winnipeg	66
Queen's	63
Brock	62
Saint Mary's	62
UPEI	61
Waterloo	61
Lethbridge	59
Wilfrid Laurier	59
Saskatchewan	58
McMaster	53
Victoria	53

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Mount Allison	84
Acadia	79
St. Thomas	77
Bishop's	75
Nipissing	72
COMPREHENSIVE	
Guelph	66
Waterloo	61
Victoria	53
New Brunswick	51
Memorial	47
MEDICAL DOCTORAL	
Western	67
Sherbrooke	65
Queen's	61
Saskatchewan	58
McMaster	53

READING THE CHARTS Unless otherwise stated, the figures displayed represent the percentage of participants who responded "very good" or "definitely yes" to the questions on the survey. In the majority of charts, universities with the highest percentages are displayed as one of the top five in their category, and/or in the top half overall, irrespective of category. In cases where universities have the identical percentages, the lists may be extended. In the charts where universities are listed within their categories, as many as seven may be named. In the Top Half charts, the lists may break in such a way that as many as 25 universities will be displayed.



Philosophy head Paul Bogaard leads a seminar at Mount Allison

PHOTOGRAPH BY DAN CALLIS

A PERSPECTIVE ON THE BROADER CAMPUS EXPERIENCE

When it came to grading student services and the extracurricular environment, the grads sent a tough message: overall, only 35 and 38 per cent respectively gave their alma mater top marks. Still, certain universities distinguished themselves, and not just the Primarily Undergraduate schools. Western, Guelph, Queen's and Sherbrooke were among those that left a relatively positive impression.

STUDENT SERVICES

TOP HALF	VERY GOOD (PER CENT)
Nipissing	58
St. Francis Xavier	57
Bishop's	56
Western	56
St. Thomas	54
Guelph	51
Mount Allison	50
Acadia	49
Saint Mary's	49
Queen's	47
Sherbrooke	47
Lakehead	43
Saskatchewan	43
Wilfrid Laurier	42
Alberta	41
Cape Breton (UCCB)	40
Trent	40
Waterloo	40
Moncton	39
Carleton	38
Laval	38
Lethbridge	38
Brandon	37
Brock	37

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Nipissing	58
St. Francis Xavier	57
Bishop's	56
St. Thomas	54
Mount Allison	50

COMPREHENSIVE	VERY GOOD (PER CENT)
Guelph	51
Waterloo	40
Carleton	38
New Brunswick	36
Victoria	36

MEDICAL DOCTORAL	VERY GOOD (PER CENT)
Western	56
Queen's	47
Sherbrooke	47
Saskatchewan	43
Alberta	41

EXTRACURRICULAR ENVIRONMENT

TOP HALF	VERY GOOD (PER CENT)
Mount Allison	72
Bishop's	71
Western	66
Queen's	60
Guelph	59
Acadia	58
St. Francis Xavier	58
Saint Mary's	55
Sherbrooke	55
Saskatchewan	54
Wilfrid Laurier	52
McGill	48
Brock	47
St. Thomas	44
Trent	43
Alberta	42
Lakehead	42
Laval	42
McMaster	42
Moncton	41
Victoria	41
Nipissing	40
UBC	38

PRIMARILY UNOERGRADUATE	VERY GOOD (PER CENT)
Mount Allison	72
Bishop's	71
Acadia	58
St. Francis Xavier	58
Saint Mary's	55

COMPREHENSIVE	VERY GOOD (PER CENT)
Guelph	59
Victoria	41
Waterloo	37
New Bruswick	34
Carleton	30

MEDICAL DOCTORAL	VERY GOOD (PER CENT)
Western	66
Queen's	60
Sherbrooke	55
Saskatchewan	54
McGill	48

For a description on how to read the charts see page 29.



The women's basketball team warming up at Guelph

PHOTOGRAPH BY PETER BREGG/MACLEAN'S

TAKING STOCK

Not surprisingly, universities with the richest library collections fared well when rated by their graduates, particularly in the Medical Doctoral category.

LIBRARY RESOURCES

TOP HALF	VERY GOOD (PER CENT)
Toronto	78
Memorial	68
Alberta	65
UBC	59
Western	59
Queen's	55
Saskatchewan	50
Ottawa	48
Concordia	46
Guelph	46
Montréal	46
Dalhousie	45
McMaster	45
Brandon	43
Waterloo	43
Calgary	41
Moncton	41
St. Francis Xavier	41
Manitoba	40
Carleton	39
New Brunswick	39
Laval	37
McGill	33
St. Thomas	33
Sherbrooke	33

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Brandon	43
Moncton	41
St. Francis Xavier	41
St. Thomas	33
Cape Breton (UCCB)	32
Laurentian	32

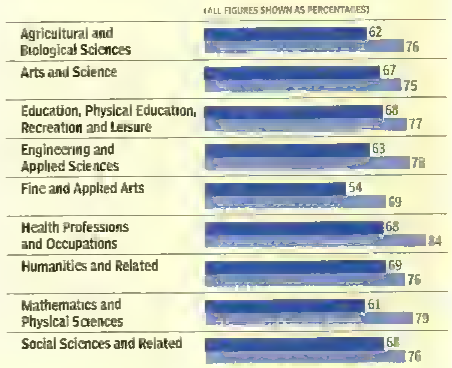
COMPREHENSIVE	VERY GOOD (PER CENT)
Memorial	68
Concordia	48
Guelph	48
Waterloo	43
Carleton	39
New Brunswick	39

MEDICAL DOCTORAL	VERY GOOD (PER CENT)
Toronto	78
Alberta	65
UBC	59
Western	59
Queen's	55

For a description on how to read the charts, see page 29.

DEGREES OF SATISFACTION

Were graduates from one field of study markedly more enthusiastic than those from another? Below are the results: percentage of graduates from all universities, by program area, who responded "definitely yes" to the final two survey questions.



studies? Was their university experience of significant benefit to their life? We wanted to hear all this from the horse's mouth—but doing so was no mean feat. The challenge: how to reach the grads without having access to their addresses or being able to speak to them directly. How could we record their views, and protect their anonymity?

From the start, it was clear that we should canvass the opinions of those who had had a chance to use their rear-view mirror to reflect on what they had learned. Or, as one Halifax-area president put it: "Those who've had time to find a job and make a bit of a dent in their student debt." For that reason, we chose the graduating classes of 1999, 2000 and 2001.

From there, we turned to two key experts: Angus Reid, president of Angus Reid Consultants and a noted expert in the field of survey research, for advice on all aspects of the survey, from questionnaire design to sampling methods; and Janet McDougall, president of McDougall Scientific Ltd.—a specialist in clinical trials, respected for her ability to manage data in a secure and reliable way. McDougall suggested we use a telephone-based interactive voice response (IVR) system, which would be customized to meet the demands of those surveyed as well as the need for reliability and confidentiality. To access the survey, participants would require an individualized personal identification number. Once they completed the survey, the PIN would be deactivated.

The key relationship in this project, however, was with the universities themselves. In agreeing to move forward, and contact their grads, they were our true partners. Many applauded our initiative. Several encouraged us to fold the results into the annual ranking. With one exception—York University—all agreed to take part. In September, following Reid's random sampling instructions, each university sent letters to their selected graduates, inviting them to participate.

So far, so good. But after months of work, the million-dollar question remained: would they pick up the phone and call? On the morning of Sept. 10—the day the 1-800 phone lines went live—I was not at *Maclean's*. Like many other parents that week, I was barrelling down the highway, dragging a U-Haul packed to the rafters with hand-me-down furniture, IKEA bookshelves and vintage LPs, heading to a university town to drop off my son. At 11:30, the cellphone rang. It was McDougall: "From the minute we went live, the lines lit up like a Christmas tree. I think you might consider doubling them."

We doubled the lines, and then doubled them again. Over 40 days this fall, they were open, 24/7. In the end, 12,334 graduates completed the *Maclean's* University Graduate Survey: 10,884 in English and 1,450 in French.

So what did they tell us? In terms of grading the quality of teaching and the learning environment, the grads of the small Primarily Undergraduate universities were particularly positive. Under-reaching, 10 of the top 15 spots were filled by institutions

RESOUNDING ENDORSEMENTS

These two questions received the highest percentage of the top response. It's important to note that the first asked graduates whether they would recommend their alma mater to a friend or relative interested in a similar course of studies. The second was a more personal question, asking the grad to reflect on the benefit that their university experience has to their life today.

RECOMMEND TO A FRIEND OR RELATIVE

TOP HALF	VERY GOOD (PER CENT)
Nipissing	91
St. Thomas	87
Sherbrooke	87
St. Francis Xavier	85
Bishop's	84
Winnipeg	84
Mount Allison	83
Waterloo	83
Guelph	82
Cape Breton (UCCB)	81
Brock	79
Western	79
Trent	78
Wilfrid Laurier	78
Acadia	77
UPEI	76
McMaster	75
Queen's	75
Lethbridge	74
Saint Mary's	74
Saskatchewan	72
McGill	71
Lakehead	70

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Nipissing	91
St. Thomas	87
St. Francis Xavier	85
Bishop's	84
Winnipeg	84

COMPREHENSIVE	VERY GOOD (PER CENT)
Waterloo	83
Guelph	82
Victoria	68
Concordia	66
New Brunswick	66

MEDICAL DOCTORAL	VERY GOOD (PER CENT)
Sherbrooke	87
Western	79
McMaster	75
Queen's	75
Saskatchewan	72

SIGNIFICANT BENEFIT

TOP HALF	VERY GOOD (PER CENT)
Western	89
Nipissing	88
Mount Allison	87
St. Francis Xavier	87
Sherbrooke	87
St. Thomas	86
Saskatchewan	85
Acadia	84
Bishop's	84
Trent	84
Guelph	83
Lakehead	83
McMaster	83
UPEI	83
Waterloo	83
Queen's	82
Victoria	82
Brock	81
McGill	80
Wilfrid Laurier	80
Alberta	78
Dalhousie	78
New Brunswick	78
UNBC	78
Winnipeg	78

PRIMARILY UNDERGRADUATE	VERY GOOD (PER CENT)
Nipissing	88
Mount Allison	87
St. Francis Xavier	87
St. Thomas	86
Acadia	84
Bishop's	84
Trent	84

COMPREHENSIVE	VERY GOOD (PER CENT)
Guelph	83
Waterloo	83
Victoria	82
New Brunswick	78
Carleton	77

MEDICAL DOCTORAL	VERY GOOD (PER CENT)
Western	89
Sherbrooke	87
Saskatchewan	85
McMaster	83
Queen's	82

For a description on how to read the charts, see page 29.



Ron discusses future options with students at McMaster

PHOTOGRAPH BY FERNANDO MORALES

with a full-time student population of 5,000 or less. Overall, 52 per cent of respondents considered their teaching "very good" and 49 per cent gave the learning environment the same nod.

But when it came to grading student services, they were much less satisfied. On average, only 35 per cent gave their alma mater top marks. Once again, the Primarily Undergraduate universities topped the charts, but there were two universities in the other two categories—Western and Guelph—that outshone their peers. As for the extracurricular environment, grads were relatively critical as well. Again, Western and Guelph distinguished themselves along with Mount Allison, Bishop's and Queen's. Not surprisingly, when it came to assessing the quality of the library, the graduates of the large Medical-Doctoral universities—those with proportionately large holdings—were among the most satisfied.

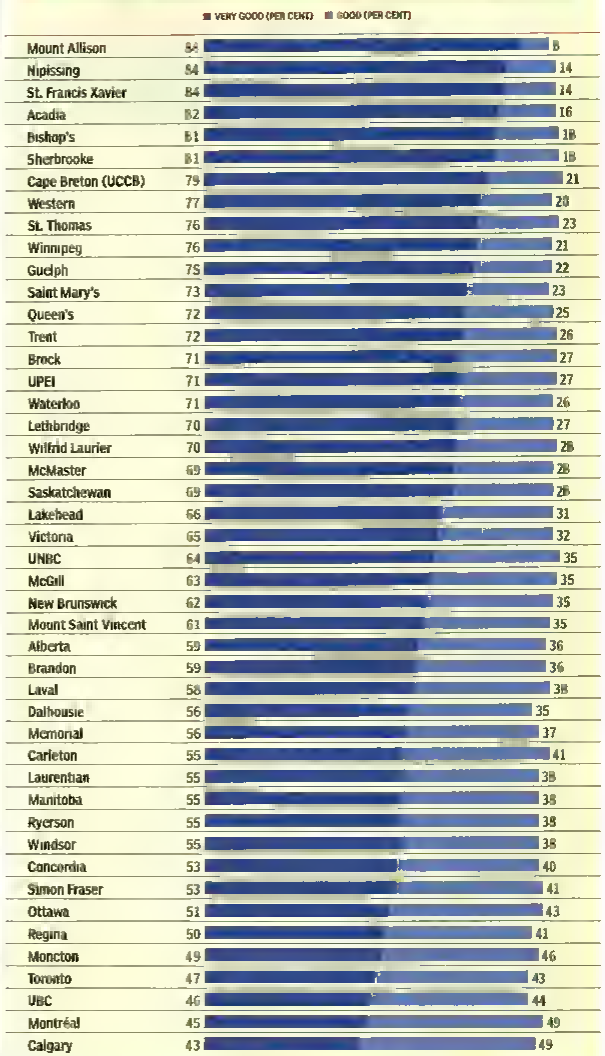
The real message in the survey, however, emerges when you look at how the graduates responded to the last three questions. When asked how they would rate their entire educational experience, 60 per cent responded "very good." Fully two-thirds said they would definitely recommend their university to someone wanting to pursue similar studies. And when asked if their university experience was of significant benefit to their life today, 77 per cent responded "definitely yes." Add in the number who said "probably yes," and the total hits 95 per cent—the greatest concurrence on any question in the survey.

In other words, while less than 50 per cent were fully satisfied with certain key aspects of their university experience, graduates gave the total package a ringing endorsement. And perhaps equally newsworthy: the endorsement was high across the nine major fields of study, whether they graduated from arts and science or engineering, education or medicine.

Which, let's face it, is extremely timely news. Consider the fact all those who participated in the survey are commenting on experiences that predate the fall of 2001. Consider also that since that time, Canadian universities have added a further 130,000 full-time students—including the three biggest incoming classes in the country's history. Even those provinces with declining

RATING THE ENTIRE EDUCATIONAL EXPERIENCE

The universities below are listed in descending order, according to the percentage of participants who responded "very good." To provide an overall picture of satisfaction, the percentage of "good" responses is included as well. It is worth noting that when combined, all universities achieved 90 per cent or more.



university age populations—Newfoundland, New Brunswick and Quebec—have witnessed sizable growth in recent years

Demand for university education is at an all-time high. It will only grow as participation rates continue to increase and the biggest classes in Canadian history move on to expensive professional and graduate programs. And yet, while the Americans have boosted their government funding to public universities by 25 per cent since 1980, Canadians have decreased theirs by 20 per cent.

There isn't a hope in Hades that funding has kept up with quality—let alone capacity. Take Alberta, where the number of qualified applicants turned away from the province's three major universities doubled between 1998 and 2002. This fall, the province boosted base funding to the universities by four per cent, and new spaces were created. Still, there is unmet demand. Having declared itself debt-free, will Alberta have the wisdom to reinvest in its future? "Ministry people now smile when they say they don't have any money," says Carl Amrhein, provost and vice president (academic) at the University of Alberta. "They've told me very plainly, 'If you can convince the voters that post-secondary is a high priority, the government will be happy to move more money your way'."

Persuading the voters may be the issue. Increasingly, a number of high profile voices are beginning to make themselves heard on this subject. This spring, Ontario Premier Dalton McGuinty asked one of his predecessors, Bob Rae, to conduct a massive review of the province's post-secondary system—home to 40 per cent of Canadian students and low man on the totem pole when it comes to government funding. This fall, Rae has been crossing the province, hosting a series of town hall meetings and round-table discussions. His toughest job? "Convincing the public that reinvestment is urgent," says Rae. "It's going to take leadership to make change. But if we don't do something, we're going to fall further behind." He pauses. "The deterioration in quality has been very *quiet*."

Rae is right. We sit at a crossroads, and our future is at stake. Now, thousands of graduates have registered a clear message about quality: what worked for them—and what did not. For all our sakes, their opinions should be taken seriously. If they are, the biggest winner in the new *Maclean's* survey just might be university education itself. M

GRADUATE SATISFACTION

The *Maclean's* University Graduate Survey represents an enormous co-operative effort on the part of 46 universities, all of which contacted graduates from the years 1995, 2000 and 2001, inviting them to take part. In total, 12,334 grads participated: 10,984 in English and 1,460 in French. All of the institutions are listed alphabetically in the chart below. The figures represent the percentage of graduates who responded "very good" or "definitely yes"—the highest levels of satisfaction—to seven of the eight survey questions. For responses to the remaining question on educational experience, see the chart on page 33.

(ALL FIGURES SHOWN AS PERCENTAGES)	TEACHING AND INSTRUCTION	LEARNING ENVIRONMENT	LIBRARY RESOURCES	STUDENT SERVICES	EXTRA-CURRICULAR	RECOMMEND TO A FRIEND	SATISFIED OVERALL
Acadia	71	79	23	49	58	77	84
Alberta	51	52	65	41	42	60	78
Bishop's	76	75	19	50	71	84	84
Brandon	49	51	43	37	15	59	76
UBC	36	35	59	27	38	55	72
Brock	65	62	22	37	47	79	81
Calgary	39	43	41	27	23	49	75
Cape Breton (UCCB)	82	68	32	40	31	81	74
Carleton	51	43	39	38	30	63	77
Concordia	58	39	48	30	24	68	69
Dalhousie	51	45	45	29	33	62	78
Guelph	68	64	48	51	59	82	83
Lakehead	50	47	28	43	42	70	83
Laurentian	47	45	32	30	28	63	73
Laval	44	44	37	38	43	62	73
Lethbridge	60	59	14	38	33	74	76
Manitoba	48	48	40	35	28	58	77
McGill	54	48	33	32	48	71	80
McMaster	57	53	45	30	42	75	83
Memorial	53	47	68	35	18	62	76
Moncton	32	47	41	39	41	52	65
Montréal	39	35	48	22	31	57	65
Mount Allison	86	84	24	50	72	83	87
Mount Saint Vincent	68	51	22	25	11	69	76
New Brunswick	48	51	39	36	34	68	78
Nipissing	78	72	19	58	40	91	68
UNBC	53	67	17	29	17	69	78
Ottawa	49	41	48	28	29	68	70
UPEI	69	61	20	33	30	76	63
Queen's	61	63	55	47	40	75	82
Regina	36	43	25	27	23	50	75
Ryerson	43	40	11	27	21	63	76
St. Francis Xavier	80	71	41	57	58	85	87
Saint Mary's	68	62	21	49	55	74	74
St. Thomas	73	77	33	54	44	87	86
Saskatchewan	58	58	50	43	54	72	85
Sherbrooke	57	65	33	47	55	87	87
Simon Fraser	51	40	32	25	16	65	76
Toronto	50	42	70	25	24	53	70
Trent	60	68	14	40	43	78	84
Victoria	57	53	32	36	41	68	82
Waterloo	59	61	43	40	37	83	83
Western	68	67	59	56	68	79	89
Wilfrid Laurier	61	59	14	43	52	78	68
Windsor	43	37	28	33	26	62	74
Winnipeg	74	64	23	31	22	84	78



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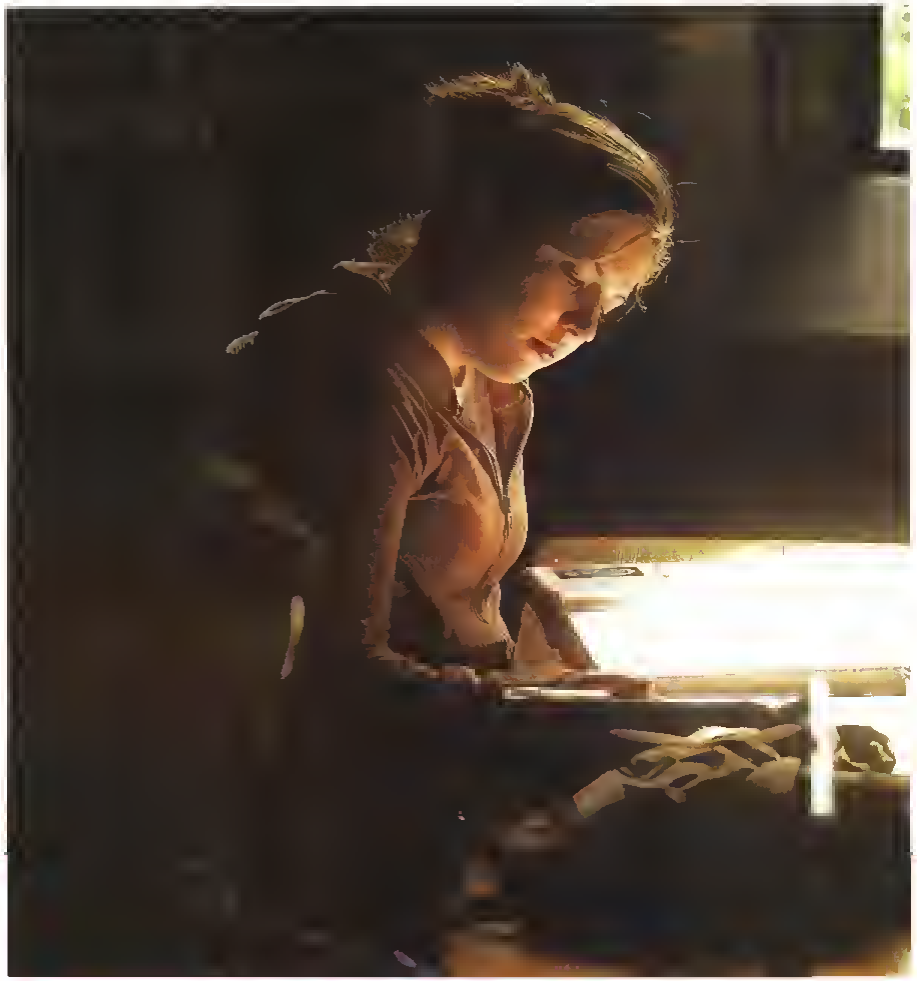
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THE RANKINGS | WHAT EVERY STUDENT NEEDS TO KNOW

Where are the smart students, the small classes, the rich library resources? Which university has the best first-year retention rate? The highest graduation rate? The largest out-of-province draw? The strongest national reputation? *Maclean's* presents its annual rankings of 47 Canadian universities, from small liberal arts institutions to major research powerhouses.

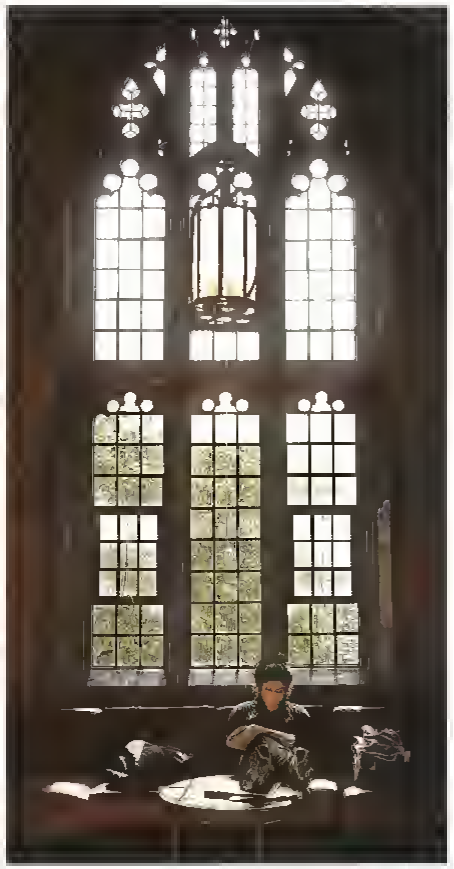
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PHOTOGRAPH BY PETER BREGG/MACLEAN'S

RANKING CANADIAN UNIVERSITIES

ANN DOWSETT JOHNSTON and MARY DWYER explain the methodology behind the annual *Maclean's* survey

The *Maclean's* rankings offer students and parents a rare view into the ivory tower—and a unique opportunity to make informed decisions on the comparative strengths of public universities across Canada. On behalf of those readers, we ask a number of key questions related to the undergraduate experience. Where are the brightest first year students? Where will you find the smallest classes? Where are you most likely to have access to tenured faculty? Where will you find the richest library resources? Which university has made the largest commitment to student services or scholarships and bursaries? Which university has the best reputation for quality and innovation? We ask all this, and much more.



How the ranking is done

In June, we circulated a detailed questionnaire to the universities. At the same time, we sent out thousands of reputational surveys across the country, and collected information on student and faculty awards from the administering agencies. Throughout the fall, editors spent several weeks collating and checking the data. Consulting statisticians from McDougall Scientific Ltd. performed the final calculations.

How we place the universities in peer groups

Using such factors as research funding, diversity of offerings and the range of Ph.D. programs to define peer groupings, *Maclean's* places each university in one of three categories. Primarily Undergraduate universities are largely focused on undergraduate education, with relatively few graduate programs. Those in the Comprehensive category have a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees. Medical-Doctoral universities offer a broad range of Ph.D. programs and research, as well as medical schools.

In reporting to *Maclean's*, universities include all federated and affiliated institutions. The magazine does not rank schools with fewer than 1,000 full-time students or those with a strictly religious or specialized mission.

How we evaluate

The universities in the three categories are treated as separate but equal. *Maclean's* ranks the schools on a range of factors in six broad groupings (weightings are in parentheses). In total, Primarily Undergraduate universities are ranked on 22 performance measures, Comprehensive universities on 23 and Medical-Doctoral universities on 24—resulting in slightly different weightings for some performance measures.

STUDENT BODY (22% to 23% of final score)

Students are enriched by the calibre of their peers. For that reason, *Maclean's* collects the incoming students' average high-school grades (11%), and the proportion of those with averages of 75 per cent or higher (2%). This count includes only those students whose secondary-school averages or CÉGEP scores served as the basis of admission. With the exception of CEGEP scores, no conversion formula is applied to incoming grade averages to adjust for provincial differences or varying admission policies.

As a measure of drawing power, we count the proportion of out-of-province students in the first-year undergraduate class (1.5%). The percentage of international students in the first-year undergraduate class (0.5%) is measured as well, acknowledging the benefits such diversity brings to the classroom. The percentage of international students at the graduate level (1%) is also measured for Comprehensive and Medical-Doctoral universities.

The student-body section also includes graduation rates (2%), the percentage of full-time undergraduate students in their second year who go on to graduate from the institution within one year of the expected time period. In addition, *Maclean's* collects data on the success of the student body at winning national academic awards (3%) over the past five years.

Last year, *Maclean's* introduced a new indicator measuring the percentage of first-year students who return in second year, either full-time or part-time (2%). While many factors can affect a student's choice not to return—personal considerations, or a decision to transfer to a professional program unavailable at their home university—student retention, on the whole, reflects a university's success in keeping its students on course.

CLASSES (17% to 18%)

The rankings embrace the entire distribution of class sizes at the first- and second-year levels (7.5% for Primarily Undergraduate universities, 7% for the other two categories), as well as the third- and fourth-year levels (7.5% for the Primarily Undergraduate category, 7% for the others). *Maclean's* measures the percentage of students in classes in each of the following class-size ranges: 1 to 25, 26 to 50, 51 to 100, 101 to 250, 251 to 500, 501 and higher.

Maclean's also ranks universities on the percentage of first-year classes taught by tenured and tenure-track professors (3%), a measure of how much access new students have to top faculty.

FACULTY (17%)

The rankings assess the calibre of faculty by calculating the percentage of those with Ph.D.s (3%), and the number who win national awards (3%). In addition, the magazine measures the success of eligible faculty in securing grants from each of the three major federal granting agencies: Social Sciences and Humanities Research Council of Canada, Natural Sciences and Engineering Research Council of Canada, and the Canadian Institutes of Health Research, as well as the Canada Council. *Maclean's* takes into account both the number and the dollar value received last year. Social sciences and humanities grants plus Canada Council grants (5.5%) and medical/science grants (5.5%) were tallied as separate indicators.

FINANCES (12%)

This section examines the amount of money available for current expenses per weighted full-time-equivalent student (3.3%), as well as the percentage of the budget spent on student services (4.3%) and scholarships and bursaries (4.3%). When presenting their general operating budget, institutions deducted any funds used to pay off debt.

LIBRARY (12%)

This section assesses the breadth and currency of the collection. Universities received points for the number of volumes and volume equivalents per number of full-time-equivalent students (4% for Primarily Undergraduate and Comprehensive, 3% for Medical-Doctoral). The total holdings measurement was used in the Medical-Doctoral category (1%), acknowledging the importance of extensive on-campus collections in those universities. As well, *Maclean's* measured the percentage of a university's operating budget that was allocated to library services (4%) and the percentage of the library budget spent on updating the collection (4%). In acknowledging a shift from the traditional library model to an access model, *Maclean's* captures spending on electronic resources in both the library expenses and acquisitions measurements.

REPUTATION (19%)

This section reflects a university's reputation with its own graduates, as well as within the community at large. For the reputational survey (16%), respondents rated the universities in three categories: Highest Quality, Most Innovative and Leaders of Tomorrow. Best Overall represents the sum of the scores.

When looking at alumni support, institutions received points for the number—rather than the value—of gifts to the university over the past five years (3%).

WEIGHTINGS

Maclean's ranks universities on up to 24 performance measures with varying weights assigned to each.

STUDENT BODY	**22% to 23%**
Average Entering Grade	11%
Proportion with 75% or Higher	2%
Student Retention	2%
Proportion Who Graduate	2%
Out of Province (1st Year)	1.5%
International (1st Year)	0.5%
International (Graduate)*	1%
Student Awards	3%
CLASSES	**17% to 18%**
Class Sizes: 1st and 2nd Year Level	7% to 7.5%
Class Sizes: 3rd and 4th Year Level	7% to 7.5%
Classes Taught by Tenured Faculty	3%
FACULTY	**17%**
Faculty with Ph.D.s	3%
Awards per Full-time Faculty	3%
Social Sciences and Humanities Grants	5.5%
Medical/Science Grants	5.5%
FINANCES	**12%**
Operating Budget	3.3%
Scholarships & Bursaries	4.3%
Student Services	4.3%
LIBRARY	**12%**
Total Library Holdings†	1%
Holdings per Student	2% to 4%
Acquisitions	4%
Expenses	4%
REPUTATION	**19%**
Alumni Support	3%
Reputational Survey	16%

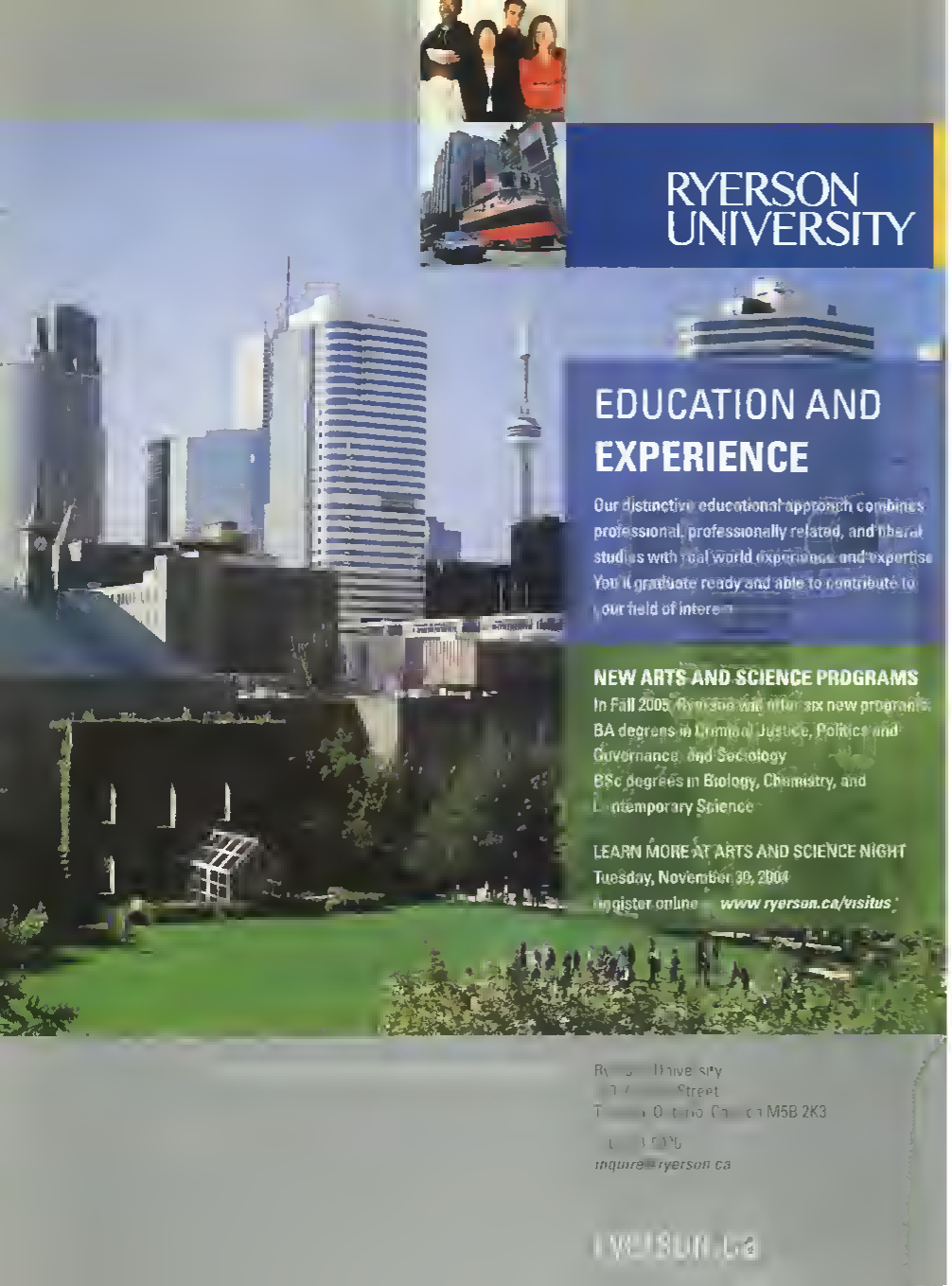
*Comprehensive and Medical-Doctoral categories only
†Medical-Doctoral category only

REPUTATIONAL RESPONSE RATE

THIS YEAR, *Maclean's* solicited the opinion of 11,454 individuals across the country. They included university officials at each ranked institution, high school principals and guidance counsellors from every province and territory, the heads of a wide variety of national and regional organizations, plus CEOs and recruiters at corporations large and small. The reputational survey is both regional and national, dividing the country into four key areas: the western provinces, Ontario, Quebec and the Atlantic provinces. All respondents completed a national survey, university officials, principals and guidance counsellors also completed regional ones.

GROUP	RESPONSE RATE
University Officials	41.4%
High-school Principals	19.7%
Guidance Counsellors	8.9%
CEOs	8%
Corporate Recruiters	9.3%
Heads of Organizations	10%
TOTAL	12.6%

PHOTOGRAPH BY PETER SIEGEL/MACLEAN'S





PRIMARILY UNDERGRADUATE WINNER | ST. FRANCIS XAVIER

With an endowment of $51 million and an $85-million revitalization campaign under way, this small university in Antigonish, N.S., is building on tradition, writes JONATHON GATEHOUSE

PRIMARILY UNDERGRADUATE

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Primarily Undergraduate category are largely focused on undergraduate education, with relatively few graduate programs.

YOU COULDN'T get lost here if you tried. Not on the pretty, hilly streets of tiny Antigonish, N.S. Certainly not on St. Francis Xavier's tidy, compact campus. Never inside its halls, residences and classrooms.

Those who crave anonymity best not apply to *Maclean's* number-one Primarily Undergraduate institution. The combination of geography, numbers (just 4,229 full-time students) and the rah-rah "X-spirit" conspires against wallflowers. Come to St. FX and you're part of a community—for life.

"For me it's a family tradition," says Meg McKenna, 20, a third-year student from Sydney, N.S. "My grandfather went here. My parents met here. I've been hearing about the place since I was two years old. I consider it brainwashing."

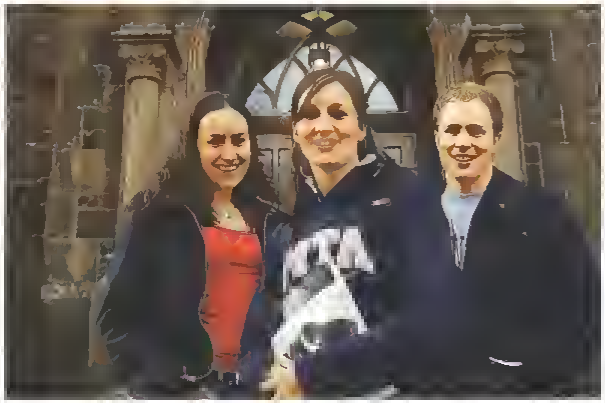
Riley's goal is to make St. FX a 'truly national' institution

Grateful grads (including Brian Mulroney, author Alistair MacLeod, and *Canada AM*'s Seamus O'Regan) advertise their affection with golden X-Rings. And many aren't shy about whipping out their chequebooks for their alma mater. The school's endowment now sits at more than $51 million, and an $85-million revitalization campaign is transforming the historic campus. The Charles V. Keating Millennium Centre, opened two years ago, provides conference space and athletic facilities, including a new weight room, plus a 1,700 seat home for the X-Men—winners of last year's Canadian Interuniversity Sport hockey championship.

The latest addition, a sparkling new Sciences Centre, opened this fall, with such high-tech amenities as wireless Internet and desktop fume hoods in labs. Future plans include a new residence, as well as a new home for the Gerald Schwartz School of Business and Information Systems, seeded with a seven-figure gift from the Onex Corp. chairman.

Settled in a leather club chair in his office, St. FX president Sean Riley—a proud grad and Antigonish boy to boot—waxes lyrical about his goal of making the university a "truly national" institution. He's well on his way: despite having one of the highest tuitions in the country, St. FX attracts 34 per cent of its first-year students from outside the province. Other X-extolling facts and figures—91 per cent of the faculty are full-time, the university employs just 10 teaching assistants—roll off the former federal

PHOTOGRAPH BY DAN CALLIS



bureaucrat's tongue. "We want to appeal to people who are looking for the whole experience," says Riley. "We're entirely focused on the fundamentals, as seen from the point of view of the student." Classes are relatively small, alumni are brought in to provide mentoring, and faculty and students are encouraged to mingle. (Riley and his wife have a rental apartment in their home, this year's tenant is a member of the X Women's rugby team.) It's a popular approach. "You call your professors by their first name," says Lindsay Hatcher, a fourth-year business student. "You don't realize until you get here how much of a benefit it is. You're able to talk to them, and not just about things related to the course."

The academic standards are high, but there's also a carefully nurtured culture of participation. St. FX has 66 student societies, promoting everything from debating to poker. And building on the university's Catholic roots and history as an institution not just for the children of the elite, but those of local farmers and fishermen as well, there's a more-than-lip-service commitment to social justice. A program that places St. FX students in local schools as volunteer tutors has been running for decades, and work with area charities and not-for-profit groups is a required part of the curriculum in programs like leadership studies. The university's Coady International Institute, dedicated to training leaders from grassroots organizations in the developing world, has produced more than 4,000 graduates in the past 40 years.

And lest it all sound a little too serious, it's worth noting that the university takes pride in another tradition: its unquestioned status as one of the country's premier party schools.



Bright students at Mount Allison (opposite); on campus at Acadia

Rick Mercer kicked off the new season of *Monday Report* with a trip to a toga party at the campus pub. "It's the only place where the confession booth has a shooter bar," joked one female student.

Even Riley, who describes himself as an "overdriven" student (he went on to a Rhodes Scholarship following graduation), admits that his fondest St. FX memories have little to do with formal studies. "A few years ago I was writing something for my kids about my university days, and what struck me was that 80 per cent of what I really valued happened outside the classroom."

In the end, that may be the best explanation for the fierce bond that exists between the university and its students, both past and present. At a small school in a small town, it's the little things that loom large. Marakesh MacLauchlan, a fourth-year student from P.E.I., talks about how great it has been to live in a community where the neighbours will come over to unclog your sink, and the mayor drops by the house to say "hi" on homecoming weekend. "I have friends whose parents wouldn't pay for their university unless they came to St. FX," she says. "That's exactly how I'm going to be." M

PRIMARILY UNDERGRADUATE

The *Maclean's* ranking takes the measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Primarily Undergraduate category are largely focused on undergraduate education, with relatively few graduate programs.

REPUTATIONAL WINNERS

Maclean's surveyed high-school principals and guidance counsellors, university officials, heads of organizations, CEOs and recruiters at corporations across the country.

HIGHEST QUALITY	LEADERS OF TOMORROW
1. Mount Allison	1. Ryerson
2. St. Francis Xavier	2. Acadia
3. Acadia	3. St. Francis Xavier
4. Wilfrid Laurier	4. Wilfrid Laurier
5. Ryerson	5. UNBC

MOST INNOVATIVE	BEST OVERALL
1. Acadia	1. Acadia
2. Ryerson	2. St. Francis Xavier
3. St. Francis Xavier	3. Wilfrid Laurier
4. Wilfrid Laurier	4. Mount Allison
5. Mount Allison	5. Ryerson

OVERALL RANKING		STUDENT BODY							CLASSES		FACULTY				FINANCES			LIBRARY			REPUTATION		
PRIMARILY UNDERGRADUATE UNIVERSITIES	LAST YEAR	AVERAGE ENTERING GRADE	PROPORTION WITH 75% OR HIGHER	STUDENT RETENTION	PROPORTION WHO GRADUATE	OUT OF PROVINCE (1ST YEAR)	INTERNATIONAL (1ST YEAR)	STUDENT AWARDS	CLASS SIZES 1ST AND 2ND YEAR LEVEL	CLASS SIZES 3RD AND 4TH YEAR LEVEL	CLASSES TAUGHT BY TENURED FACULTY	FACULTY WITH PH.Ds	AWARDS PER FULL-TIME FACULTY	SOCIAL SCIENCES & HUMANITIES GRANTS	MEDICAL/ SCIENCE GRANTS	OPERATING BUDGET	SCHOLARSHIPS & BURSARIES (PERCENTAGE OF BUDGET)	STUDENT SERVICES (PERCENTAGE OF BUDGET)	HOLDINGS PER STUDENT	ACQUISITIONS	EXPENSES	ALUMNI SUPPORT	REPUTATIONAL SURVEY
1 St. Francis Xavier	1	2	4	10	2	4	17	5*	8	9*	9	8	18	3	3	7	10	10	11	4	16	1	2
2 Mount Allison	2	1	1	14	12	2	6	1	16	7	3	3	1	14	5	1	15	12*	2	19	4	4	4
3 Acadia	3	4*	6	11	4	3	1	3	11	6	16	9	10	7	10	11	16	16	3	9	12	13	1
4 Bishop's	4	6	3	8	10	1	3	12*	2	2	17	17	20*	18	17	5	6	1	8	16	1	5	12
5 Wilfrid Laurier	6	3	2	2	3	19	20	16	20	19	21	2	12	4	8	19	2	5	17	11	10	10*	3
6 Trent	5	19	20	9	13	15	15*	7	9	9*	6	7	3	5	1	10	1	17	15	12	9	8	7
7 UNBC	7*	8	12	18	5	14	19	4	10	16	18	5*	20*	2	13	2	18	8	9	1	3	N/A	11
8 UPEI	9	14	13	15	11	8	9	5*	12	12	1	12	2	1	9	3	14	20	5	15	17	9	15
9 Saint Mary's	11	11*	10	1	1	6	2	10	14	13	4	1	11	6	11	13	13	14	16	21	14	2	9
10 St. Thomas	7*	4*	7	16	16	5	10	21	7	20	14	4	7	16	N/A	15	7	3	4	20	13	6	14
11 Winnipeg	10	7	9	13	19	13	12	2	6	14	20	14	13*	12	14	21	19	4	20	14	2	3	10
12 Lethbridge	12*	16	15	17	8	7	4	12*	13	15	12	16	4	15	2	9	11	2	10	17	6	18	8
13 Brock	12*	13	8	5	6	20	7	14	21	18	15	10	5*	8	6	20	8	6	19	7	11	14	6
14 Brandon	16	11*	16	19	15	9	15*	15	3*	3*	2	15	5*	9*	19	4	20	18	1	5	8	20	20
15 Mount Saint Vincent	14	9	11	20	14	10	8	18*	3*	1	19	13	15	9*	20	17	17	21	7	3	20	7	13
16 Ryerson	18	10	5	4	9	16	14	20	19	21	10	20	17	17	7	18	9	9	21	6	21	15	5
17 Lakehead	17	21	21	3	7	17	18	8	18	17	8	5	13*	11	4	14	3	15	12	2	7	12	17
17 Moncton	15	18	19	12	20	12	13	11	3	11	13	19	19	13	15	6	12	11	6	8	5	10*	18
19 Laurentian	19	17	18	7	17	18	11	9	17	5	11	11	8	21	12	8	4	19	14	13	15	19	16
20 Nipissing	20	20	14	6	18	21	21	17	15	8	7	18	9	20	16	12	5	12*	18	10	19	16	19
21 Cape Breton (UCCB)	21	15	17	21	21	11	5	18*	1	3*	5	21	16	19	18	16	21	7	13	18	18	17	21

*Indicates a tie. Full description of the methodology, page 38.

PHOTOGRAPH BY DAN CALLIS (OPPOSITE); PHOTOGRAPH BY DAN CALLIS

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COMPREHENSIVE WINNER | UNIVERSITY OF WATERLOO

Renowned as a leader in co-op education, this Ontario university has richly earned its image as a place where academe, the workplace and the marketplace converge, writes CHARLIE GILLIS

COMPREHENSIVE

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Comprehensive category have a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.

IN THE MORNING rush of earnest-looking undergrads, the guy with the blow-up love doll stands out like a beacon. He's striding jauntily down a campus pathway with the life-sized novelty tucked under his arm, parting the crowd as he moves. It's a prop, you might think, for some frat-boy gag. Or a joke gift for a roommate who can't get a date. But at the University of Waterloo, you can't be too sure: the school has never shied from *non traditional* fields of inquiry, and anatomically correct inflatables have already been used here for legitimate research.

Johnston fosters excellence in the classroom and well beyond

It happened a few years ago, when a master's student named Mike Cinelli was devising a kinesiology experiment. "We needed something that was shaped like a person," recalls the 28-year-old, who was measuring the human response to approaching bodies. "But we didn't want to injure anyone in the experiments." By suspending a blow up doll named Sophie from ceiling tracks, and propelling her at varying speeds with an electric motor, Cinelli was able to test the reactions of volunteer subjects without risking their safety. His finding? People expend the same amount of energy when avoiding an approaching body—no matter how quickly it's moving. The success of the project helped win Cinelli a doctoral candidacy.

It also reinforced Waterloo's reputation for defying ivory tower stereotypes. From its internationally renowned co-operative education program, to the cluster of tech spinoffs springing up around its campus, the southern Ontario university has richly earned its image as a school where academe, the workplace and the marketplace converge. "To us, what you learn outside the classroom is as important as what you learn inside it," says Waterloo president David Johnston, and he counts off ways the university shows it. There are the more than 90 exchange programs available to students who wish to earn credits while studying abroad. And the mentoring program for budding entrepreneurs. Even something as simple as a guaranteed residence space for all first year students. "We try hard to construct a harmonious, attractive, supportive environment outside of class."

Their efforts are paying off. This year

PHOTOGRAPH BY PETER BREGG/MACLEAN'S

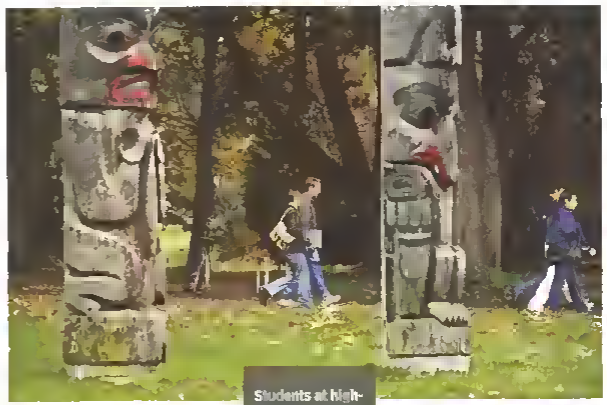


Waterloo ranked first overall in the Comprehensive category, scoring top marks on several indicators, including student and faculty awards. And it beat out every university in the country when it came to overall reputation, evidence that word of Waterloo's success has spread. Dalton Garrison, a third-year environmental studies student, has certainly been doing his part. "The experience has just been great, and residence in particular has been awesome for me," says Garrison, 22, who serves as a student ambassador for his school. "You want to get out and share that information with others."

Of course, the co-op program still gets top billing in the university's promotional material. With 3,600 participating employers, Waterloo channels some 11,000 students annually into a work-study system that has defined the university from its inception. The engineering program is probably best known—all of its students log time on the job before graduating. But co-op is by no means restricted to technical programs.

COMPREHENSIVE

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Comprehensive category have a significant amount of research activity and a wide range of programs at the undergraduate and graduate levels, including professional degrees.



Students at high-ranked Victoria and Guelph (opposite)

Simon Lewchuk, a 21-year-old honours arts and business student, took a placement with the Ontario Federation of Agriculture, where he lobbied for farmers and even sat in on meetings with cabinet ministers. And last summer, Erin Betts, a 23-year-old political science major, taught health-education courses with the Red Cross in Guyana, knowing it would provide practical experience for a career in international development. "You don't have to be in a certain field to apply for a certain co-op job," she says. "The system is really good that way."

The university also gets kudos for a forward-thinking policy on intellectual property, which confers rights to ideas to individuals rather than the university itself. The result has been a burgeoning community of start-ups around the campus—many founded by former students and faculty. Far from depriving the school of fame and fortune, the policy has fostered joint research projects between the university and many of its spinoff firms, which in turn produces more co-op positions for incoming students. "We want to have as few barriers as possible between an idea in a laboratory and its application in the world outside," says Johnston. "But we also believe that application should reinform the menu of ideas in the laboratory."

Perhaps the best example of this phenomenon is the university's relationship with Research in Motion Ltd. (RIM), the BlackBerry inventor co-founded by Waterloo graduate Mike Lazaridis. The firm now employs 600 co-op students each year and Lazaridis, currently serving as Waterloo's chancellor, donated $100 million to found the Perimeter Institute, a think tank for theoretical physicists based in Waterloo. The institute maintains a close relationship with the university, providing research opportunities for graduate students and faculty.

Not all examples are so big, of course. Cinelli proved what you can accomplish with an empty lab and an inflatable dummy. How one came to be crossing the road at 9 on a Monday morning, he's not entirely sure. "Sophie sprung a leak near the end of our study," he says with a laugh, "We'd retired her to an office, and I don't know if she's still there."

Anyway, it's probably unfair to impute low motives to a lad carrying the dummy to class. If Waterloo teaches its students anything, it's that not every lesson comes from a book. M

REPUTATIONAL WINNERS

***Maclean's* surveyed high-school principals and guidance counsellors, university officials, heads of organizations, CEOs and recruiters at corporations across the country.**

HIGHEST QUALITY	LEADERS OF TOMORROW
1. Waterloo	1. Waterloo
2. Guelph	2. Guelph
3. Victoria	3. Simon Fraser
4. Simon Fraser	4. Victoria
5. Memorial	5. York

MOST INNOVATIVE	BEST OVERALL
1. Waterloo	1. Waterloo
2. Guelph	2. Guelph
3. Simon Fraser	3. Simon Fraser
4. Victoria	4. Victoria
5. Memorial	5. Memorial

OVERALL RANKING		STUDENT BODY								CLASSES		FACULTY					FINANCES			LIBRARY			REPUTATION	
COMPREHENSIVE UNIVERSITIES	LAST YEAR	AVERAGE ENTERING GRADE	PROPORTION WITH 75% OR HIGHER	STUDENT RETENTION	PROPORTION WHO GRADUATE	OUT OF PROVINCE (1ST YEAR)	INTERNATIONAL (1ST YEAR)	INTERNATIONAL (GRADUATE)	STUDENT AWARDS	CLASS SIZES, 1ST AND 2ND YEAR LEVEL	CLASS SIZES: 3RD AND 4TH YEAR LEVEL	CLASSES TAUGHT BY FACULTY TENURED WITH PH.Ds	FACULTY	AWARDS PER FULL TIME FACULTY	SOCIAL SCIENCES & HUMANITIES GRANTS	MEDICAL/ SCIENCE GRANTS	OPERATING BUDGET	SCHOLARSHIPS & BURSARIES (PERCENTAGE OF BUDGET)	STUDENT SERVICES (PERCENTAGE OF BUDGET)	HOLDINGS PER STUDENT	ACQUISITIONS	EXPENSES	ALUMNI SUPPORT	REPUTATIONAL SURVEY
1 Waterloo	2	2	3	1	2	6	7	3	1	5	10	1	6*	1	3	4	6	3	7	8	1	7	1	1
2 Guelph	1	4	1	2	1	9*	11	8	4	7	7	2	1	6	7	3	5	4	2	4	4	10	2	2
3 Victoria	3	1	2	3	4	3	5	4	5	6	4	5	4	2	4	1	2	6	6	3	5	6	9	4
4 Simon Fraser	4	3	4	10	5	7	3*	10	2	8	9	9	8	4	1	2	1	8	8	10	3	3	4	3
5 Memorial	5	10	10	8	11	4	8*	7	9	1	3	8	9	10	10	11	4	9	5	1	6	1	6	5
6 Regina	6	5	7	11	9	8	9*	2	8	3*	1	10	11	11	6	9	3	5	9	5	2	9	11	10
7 New Brunswick	8*	7	9	7	10	1	6	5	6	3*	2	3	10	5	9	10	7	10	10	2	10	2	7	7
8 York	8*	9	8	4	3	9*	10	11	7	11	8	4	2	3	8	7	10	2	3	9	8	8	10	6
9 Carleton	10	8	5	5	8	5	3	9	3	9	11	11	5	8	5	6	9	1	4	7	9	4	8	9
9 Concordia	7	6	6	6	7	2	1	6	10	2	5	7	3	9	2	5	11	11	11	11	11	11	3	8
11 Windsor	11	11	11	9	6	11	2	1	11	10	5*	6	6*	7	11	8	8	7	1	6	7	5	5	11

*Indicates a tie. Full description of the methodology page 38

PHOTOGRAPH BY PETER BREGG/MACLEAN'S (OPPOSITE); PHOTOGRAPH BY DARREN STONE



MEDICAL DOCTORAL WINNER | UNIVERSITY OF TORONTO

Building on an impressive history, Canada's pre-eminent research institution has ushered in a number of new student-centred initiatives and academic firsts, writes VICTOR OWYER

MEDICAL DOCTORAL

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Medical Doctoral category have a broad range of Ph.D. programs and research, as well as medical schools.

SHE BEGAN her degree in life sciences just this September, but 17-year-old Pamela Tsao can trace her roots at the University of Toronto to well before that. While still a high school student in suburban Toronto Tsao took advantage of a mentorship program offered by the university. Every couple of weeks, she would meet with a fourth-year biology student in a laboratory at the city's Mount Sinai Hospital. There, says Tsao, she gained "unbelievable access to an academic community of research," and among other things, learned how to identify proteins within cells. "It was really, really cool," says Tsao, now enrolled at historic Trinity College, where she has joined the intramural field hockey team, attended a college debate and is returning the favour of mentorship through an elementary school tutoring program called Junior Undiscovered Math Prodigies (JUMP), supported by the university-affiliated Fields Institute for Research in Mathematical Sciences. "What drew me to the U of T is that it doesn't value just out-of-textbook teaching," says Tsao. "It's all about sharing the excitement of learning."

Home to roughly 70,000 students, 3,000 faculty, more than 300 undergraduate programs, 14 professional faculties and 32 libraries, Canada's top-ranked Medical-Doctoral university is a place where learning is the order of the day. And although the University of Toronto is not immune to problems of underfunding and overcrowding, its $1.5-billion endowment, unparalleled among Canadian universities, has helped it put the needs of students front and centre. This past year alone, the university awarded $54 million in undergraduate student aid, more than three-quarters of it based on need—while hiring 81 new tenure-stream professors, who have found a place on campus alongside such stars as peace-and-conflict expert Thomas Homer-Dixon, demographer David Foot and cancer researcher Tak W. Mak. "Our ongoing goal is to attract the most talented faculty and students we can," says interim president and former Supreme Court justice Frank Iacobucci. "And we'll do whatever it takes to accomplish that."

His appointment this fall brought a measure of stability to the university after a year in which provost Shirley Neuman

"We can never rest on our laurels," says Iacobucci

PHOTOGRAPH BY PETER BREGG/MACLEAN'S

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THOMPSON RIVERS UNIVERSITY



Dana Samilski
Burlington, ON
Bachelor of Arts
I'm enjoying the small class sizes and the one on one with instructors. I'm also enjoying going to school with all these mountains around me.



Haodang Wang
Changchun, China
Tourism Management
People in Kamloops are very kind. They help me anywhere and anytime.



Andrea Grant
Nanaimo, BC
Bachelor of Science
I'm getting to meet some very cool people and getting a good education in small classes. Plus I get to know my instructors very well.



Tyrell Law
100 Mile House, BC
Bachelor of Natural Resource Science
UCC is affordable and close to home. Kamloops has nice weather and is close to Sun Peaks Resort.



Lisa Voth
Abbotsford, BC
Bachelor of Education
UCC has many opportunities. Graduating with my BSc in June 2004 and getting into the BEd program in September has been the highlight of my experience.

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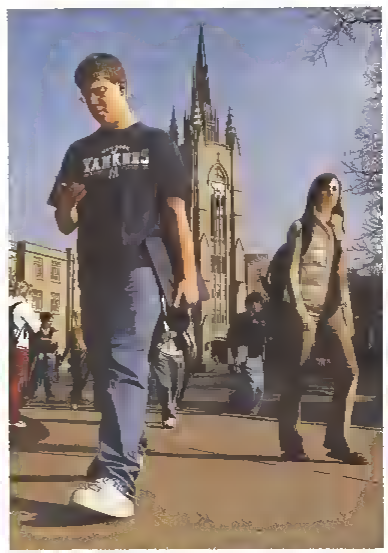


stepped down after 18 months on the job and former president Robert Birgeneau abruptly moved, four years into his seven-year term, to become chancellor of the University of California at Berkeley Iacobucci's temporary posting has initiated considerable speculation about who will replace him: former Ontario premier Bob Rae, and the current deans of law and medicine, Ron Daniels and David Naylor, are seen as strong contenders Whoever lands the job will face the enviable but unrelenting challenges that come with running Canada's pre-eminent research-intensive university. "This is a highly competitive world," says Iacobucci. "We know we can never rest on our laurels."

Resting on its laurels has certainly never been the U of T way An ongoing capital expansion program, the most ambitious in four decades, has ushered in a number of new student-centred initiatives and academic firsts At a university known for its close-knit colleges—many of them more than a century old, each with its own distinctive programs, social clubs and residences—a policy now guarantees a spot in residence to all first year students who seek one. In May, the $32-million Woodsworth College residence was opened on the downtown St. George campus, with beds for 362 undergraduates Just months before that, the ribbon was cut on the Centre for Function and Well-Being 10 storeys of classrooms, labs and clinics, all devoted to the fields of occupational and physical therapy, speech pathology and rehabilitation science And by year's end, 720 sq m of extra study and activity space will be opened at Sidney Smith Hall, home to several departments in the faculty of arts and science

Between classes at McGill and Western (opposite)

Big changes are also afoot at U of T's two burgeoning suburban campuses. This fall, the Mississauga campus opened a new $35-million headquarters for its program in communication, culture and information technology, jointly offered with Sheridan College. Meanwhile, construction has begun on an athletics facility to help meet the needs of a student population expected to increase from 9,000 this fall to 11,500 by 2006 In eastern Toronto, where the co-op-heavy Scarborough campus's $23-million Academic Resource Centre, home to a state-of-the-art library, was opened last fall, a spanking new student centre is now also up and running, equipped with a health centre, 95-seat licensed restaurant, and meeting space for the campus's 85 student clubs



It's just that kind of dedication to what Iacobucci calls "the total student experience" that has helped the University of Toronto remain at the cutting edge of higher education, while building on its impressive history This is the place where former prime minister Lester B Pearson, medical pioneer Norman Bethune and writer Margaret Atwood all once earned a degree—and where the $800,000 archives of rock band Blue Rodeo are just one of the latest additions to the university's high tech Media Commons It's here that the venerable Royal Ontario Museum and Canadian Opera Company both got their start—and where this fall's new academic offerings include a major in sexual diversity and a minor in environmental ethics And it's here where newcomers like Victoria College student Daniel Rubinstein, a self-described "awful swimmer," mastered the front crawl this fall, thanks to lessons at the Hart House pool—in the same semester that he's settled into a course in introductory Mandarin, sat in on a lecture by former finance minister John Manley and gone shopping for cheap used clothing at nearby, funky Kensington Market "A lot of people think the U of T is big, cold and strictly academic," says Rubinstein, 18 "In fact, between your college and your program, it's incredibly close-knit, the resources are fabulous and the opportunities are endless" M

REPUTATIONAL WINNERS

Maclean's surveyed high-school principals and guidance counsellors, university officials, heads of organizations, CEOs and recruiters at corporations across the country.

HIGHEST QUALITY	LEADERS OF TOMORROW
1. Queen's	1. Toronto
2. McGill	2. Alberta
3. Toronto	3. Queen's
4. UBC	4. UBC
5. McMaster	5. McGill

MOST INNOVATIVE	BEST OVERALL
1. McMaster	1. Toronto
2. Toronto	2. Queen's
3. Queen's	3. McGill
4. Alberta	4. McMaster
5. McGill	5. Alberta

MEDICAL DOCTORAL

The *Maclean's* ranking takes a measure of the undergraduate experience, comparing universities in three peer groupings. Those in the Medical Doctoral category have a broad range of Ph.D. programs and research, as well as medical schools.

OVERALL RANKING		STUDENT BODY								CLASSES		FACULTY					FINANCES			LIBRARY				REPUTATION	
MEDICAL DOCTORAL UNIVERSITIES	LAST YEAR	AVERAGE ENTERING GRADE	PROPORTION WITH 75% OR HIGHER	STUDENT RETENTION	PROPORTION WHO GRADUATE	OUT OF PROVINCE (1ST YEAR)	INTERNATIONAL (1ST YEAR)	INTERNATIONAL (GRADUATE)	STUDENT AWARDS	CLASS SIZES, 1ST AND 2ND YEAR LEVEL	CLASS SIZES, 3RD AND 4TH YEAR LEVEL	CLASSES TAUGHT BY FACULTY WITH PH.Ds		AWARDS PER FULL TIME FACULTY	SOCIAL SCIENCES & HUMANITIES GRANTS	MEDICAL/ SCIENCE GRANTS	OPERATING BUDGET	SCHOLARSHIPS & BURSARIES (PERCENTAGE OF BUDGET)	STUDENT SERVICES (PERCENTAGE OF BUDGET)	TOTAL HOLDINGS	HOLDINGS PER STUDENT	ACQUISITIONS	EXPENSES	ALUMNI SUPPORT	REPUTATIONAL SURVEY
1 Toronto	1	6*	4	1	1	12	6	14	4	15	13	2	3	2	2	1	1	3	2	1	5	3	1	1	1
2 McGill	2	1	5	6	2	2	1	5	1	12	5	13	11	3	1	2	6	8	5	8	8	7	6	3	3
3 Western	3*	4	3	4	3	11	10	15	12	5	2	1	4	10	11	5	9	1	6*	4	4	1	3	2	7
4 UBC	5	3	6	7	9	6	4	4	3	9	14	12	1*	4	3	4	15	5	1	3	6	14	2	9	6
5 Queen's	3*	2	1	2	4*	4	12	3	2	13	12	5	9	1	8	10*	13	2	9	5	2	2	7	5	2
6 Alberta	6	10	11	12	13	3	11	2	5	11	11	14	1*	5	6	3	5	4	8	2	1	8	5	8	5
7 Montréal	7	5	7	9	4*	9	2	9	7	3	9	8	10	6	4	6	4	11	11	6	14	15	10	6	10
*8 McMaster	11	11	2	8	8	15	5	6	8	14	15	10	7	8	7	7	11	7	3	13	12	10	11	12	4
8 Sherbrooke	8	6	8	5	6	13	14	11	14	1	3	4	13*	12	15	12	14	6	12	15	15	5	15	4	8
10 Saskatchewan	9	6*	12	13	11	10	15	1	15	4	1	7	12	13	12	15	2	15	15	10	3	4	8	14	9
11 Laval	10	9	9	3	14	14	3	10	9	2	6	3	5	9	10	8	8	13	10	9	9	6	14	15	13
12 Ottawa	12	13	13	10	7	5	8	7*	13	6	10	9	6	7	5	9	3	9	4	11	10	9	12	13	14
13 Dalhousie	13	12	10	15	10	1	7	7*	6	7	4	11	13*	14	9	13	10	12	13	14	11	12	13	11	11
14 Calgary	14	15	14	14	15	7	13	13	11	10	8	6	15	11	14	10*	7	10	6*	7	7	11	9	10	12
15 Manitoba	15	14	15	11	12	8	9	12	10	8	7	15	8	15	13	14	12	14	14	12	13	13	4	7	15

*Indicates a tie. Full description of the methodology page 38.

PHOTOGRAPH BY CHRISTINNE MUSCHI (LEFT); PHOTOGRAPH BY PETER BREGG/MACLEAN'S



Studying at McGill, renowned for its bright incoming class

STUDENT BODY

The quality and dedication of students have an enormous impact on the learning environment. *Maclean's* takes two measures of entering grades, and calculates the proportion of first-year students who return for a second year—full- or part-time. Other measures include the proportion of students graduating within a reasonable time, the success of the student body at winning national awards, and the university's national and international drawing power.

AVERAGE ENTERING GRADE

Students are enriched by the calibre of their peers. Here are the average final-year grades of first-year students entering from high school or Quebec's CÉGEP system

		GRADE
1	McGill	89.3%
2	Queen's	89%
3	UBC	88.5%
4	Western	88.1%
5	Montréal	87.6%
*6	Saskatchewan	86.5%
*6	Sherbrooke	86.5%
*6	Toronto	86.5%
9	Laval	86.1%
*10	Alberta	85.9%
*10	Victoria	85.9%
12	Waterloo	85.8%
*13	Mount Allison	85.5%
*13	Simon Fraser	85.5%
15	McMaster	85%
16	Guelph	84.6%
17	Dalhousie	84.4%
18	St. Francis Xavier	83.9%
19	Ottawa	83.7%
*20	Regina	83.6%
*20	Wilfrid Laurier	83.6%
22	Manitoba	83.1%
23	Calgary	82.6%
*24	Acadia	82.5%
*24	St. Thomas	82.5%
26	Bishop's	82.4%
*27	Concordia	81.6%
*27	Winnipeg	81.6%
29	New Brunswick	81.5%
30	Carleton	81.4%
31	UNBC	81.2%
32	Mount Saint Vincent	81%
33	Ryerson	80.7%
*34	Brandon	80.5%
*34	Saint Mary's	80.5%
*34	York	80.5%
37	Brock	80.4%
38	UPEI	80.3%
39	Memorial	80%
40	Cape Breton (UCCB)	79.5%
41	Lethbridge	79.4%
42	Laurentian	79%
43	Windsor	78.8%
44	Moncton	78.6%
45	Trent	78.5%
46	Nipissing	78.4%
47	Lakehead	77%

*indicates a tie
Full description of the methodology page 38.

PROPORTION WITH 75% OR HIGHER

Maclean's calculates the percentage of first-year students arriving from high school or CÉGEP with averages of 75 per cent or higher

		PER CENT
1	Queen's	100
2	McMaster	99.98
3	Western	99.96
4	Toronto	99.78
5	McGill	99.77
6	UBC	99.55
7	Guelph	99.49
8	Montréal	99.3
9	Victoria	99.21
10	Waterloo	99.01
11	Sherbrooke	97.89
12	Simon Fraser	97.59
13	Laval	97.02
14	Dalhousie	96.85
15	Alberta	96.31
16	Mount Allison	95.88
17	Wilfrid Laurier	94.02
18	Bishop's	93.76
19	Saskatchewan	93.59
20	St. Francis Xavier	93.3
21	Ottawa	91.74
22	Calgary	91.17
23	Carleton	85.69
24	Concordia	85.58
25	Ryerson	85.37
26	Acadia	85.29
27	St. Thomas	84.83
28	Regina	83.5
29	Manitoba	82.31
30	Brock	81.82
31	York	80.91
32	Winnipeg	80.42
33	Saint Mary's	79.97
34	New Brunswick	79.71
35	Mount Saint Vincent	79.04
36	UNBC	77.31
37	Memorial	74.85
38	UPEI	74.52
39	Nipissing	72.17
40	Lethbridge	71.44
41	Brandon	71
42	Cape Breton (UCCB)	70.95
43	Windsor	69.16
44	Laurentian	68.41
45	Moncton	67.58
46	Trent	61.19
47	Lakehead	58.37

GRADE DISTRIBUTION

While the *Maclean's* ranking takes account of the average entering grade of first-year students arriving from high school or CÉGEP, the average tells only part of the story. What percentage of those students entered with grades within each of the following ranges?

	LESS THAN 65%	65-69.9%	70-74.9%	75-79.9%	80-84.9%	85-89.9%	90-94.9%	95% OR HIGHER
Acadia	0.1	1.3	13.3	21.7	24.4	20.5	14.2	4.5
Alberta	0	0.2	3.5	14.4	25.7	31.8	18.9	5.5
Bishop's	0	0	6.2	30.2	28.9	21	12.8	0.9
Brandon	5.3	10	13.7	16.9	17.4	18.3	13.9	4.4
UBC	0	0.1	0.4	2	21.4	33.9	30.6	11.6
Brock	0	2.5	15.7	25.2	33	16.6	6	1
Calgary	0	0.6	8.2	24.8	31.8	22.8	10.1	1.8
Cape Breton (UCCB)	9.3	6.9	12.9	19.2	19	15	13	4.8
Carleton	0	0.1	14.2	25.1	30.8	18.8	9.4	1.7
Concordia	0.7	5.1	8.7	22	24.6	25.7	12.3	1
Dalhousie	0	0	3.1	16.4	34.7	25.6	15.2	4.9
Guelph	0	0	0.5	21.9	40.8	25.6	10.1	1.1
Lakehead	0	17.1	24.5	24.3	19.1	10.3	4.1	0.6
Laurentian	0.3	7.7	23.6	25.2	23.4	13.5	5.2	1.1
Laval	0	0.2	2.7	10.5	23.4	31.8	27.5	3.9
Lethbridge	0.3	8.5	19.8	23.4	21.6	16.5	8.2	1.8
Manitoba	0.6	5.9	11.2	15.4	18.7	23.6	17.8	6.8
McGill	0	0	0.2	0.6	12	42.5	39.7	5
McMaster	0	0	0	16	33.6	31.1	16	3.4
Memorial	0	0.4	24.8	27.6	23.9	14.8	7.6	1
Moncton	2.7	10.9	18.7	21.9	21.2	15.3	7.5	1.7
Montréal	0	0	0.7	6.1	19.8	32.5	35.8	5.1
Mount Allison	0	0	4.1	17.8	26.5	21	23.9	6.7
Mount Saint Vincent	0	3.5	17.4	25	24.2	16.2	10.4	3.3
New Brunswick	0.1	6.2	13.9	21.3	22.6	18.3	13.6	4
Nipissing	0.2	1	26.7	32	23.4	12.4	4	0.3
UNBC	0	10	12.7	21.7	21.4	18.7	12.7	2.7
Ottawa	0	0	8.3	19.8	29.5	26.1	13.5	2.9
UPEI	0	10.9	14.6	22.5	19.8	16.5	12	3.8
Queen's	0	0	0	0.8	10.2	41.4	36	11.6
Regina	0.9	4.7	10.9	18.8	20.6	20.7	17.4	6
Ryerson	0	0	14.6	29.1	35.5	15.2	5.2	0.4
St. Francis Xavier	0.2	0.4	6.2	21.7	28.7	23.1	16.2	3.6
Saint Mary's	0.6	5.8	13.6	28	22.4	17.6	10.4	1.6
St. Thomas	0	0	15.2	22.9	24	19.9	12.8	5.2
Saskatchewan	0	1.2	5.2	11.6	18.6	28.4	24	11.1
Sherbrooke	0	0.3	1.8	8.6	22.8	35.5	25.2	5.7
Simon Fraser	0	0	2.4	12.9	29.3	35.4	16.9	3.1
Toronto	0	0	0.2	10.3	24.7	36.1	22.1	6.6
Trent	0.6	10.5	27.7	25.6	20.7	9.4	4.9	0.6
Victoria	0	0.1	0.7	7.5	34.8	34.9	18	3.9
Waterloo	0	0	1	15.1	26.7	26.4	26.2	4.6
Western	0	0	0	0.3	16.1	54.2	25.6	3.8
Wilfrid Laurier	0	0.4	5.6	17.9	34.4	28.9	11.2	1.6
Windsor	0	0	30.8	29.5	22.3	11.5	4.8	0.9
Winnipeg	4.2	5.4	9.9	14	20	21.6	20.1	4.8
York	0	0.1	16.9	31.3	26.3	14.2	8.3	0.8

Note: Due to rounding, the total in each row may not equal 100 per cent.

PHOTOGRAPH BY CHRISTINNE MUSCHI

STUOENT RETENTION

Maclean's calculates the percentage of first-year students who return in second year, either full-time or part-time.

		PER CENT
1	Toronto	95.8
2	Queen's	95.5
3	Laval	95.2
4	Western	94.9
5	Sherbrooke	93.8
6	Waterloo	93.7
7	McGill	92.4
8	Saint Mary's	92.2
9	Wilfrid Laurier	91.8
10	Lakehead	91.6
11	UBC	90.9
12	Ryerson	90.6
13	Guelph	90.5
14	McMaster	90.1
*15	Montréal	90
*15	Victoria	90
17	Brock	89.9
18	Ottawa	89.8
19	York	88.7
20	Carleton	88
*21	Concordia	87.5
*21	Nipissing	87.5
23	Laurentian	86.9
24	Bishop's	86.8
25	Trent	86.3
26	New Brunswick	86.2
27	St. Francis Xavier	86.1
28	Memorial	85.8
29	Manitoba	85.1
30	Windsor	85
31	Alberta	84.7
32	Saskatchewan	84.4
33	Calgary	84.3
34	Dalhousie	83.9
35	Acadia	83.8
36	Moncton	83.5
37	Winnipeg	83.2
38	Simon Fraser	82.8
39	Mount Allison	81.4
40	UPEI	80.1
41	St. Thomas	79.8
42	Regina	77.6
43	Lethbridge	74.5
44	UNBC	73.2
45	Brandon	71.1
46	Mount Saint Vincent	69.8
47	Cape Breton (UCCB)	68.5

PROPORTION WHO GRAOUATE

Maclean's measures the percentage of full-time undergraduates who completed their degree within one year of the expected graduation date.

		PER CENT
1	Toronto	92.6
2	McGill	92.5
3	Western	91.8
*4	Montréal	91.6
*4	Queen's	91.6
6	Saint Mary's	91.5
7	Sherbrooke	90.5
8	Ottawa	90.3
9	St. Francis Xavier	89.7
10	Guelph	89.5
11	McMaster	89.2
12	UBC	88.1
13	Dalhousie	87.9
14	Wilfrid Laurier	87.5
15	Waterloo	87.2
16	Saskatchewan	86.8
17	York	86.6
18	Manitoba	84.8
19	Acadia	84
20	UNBC	83.1
21	Brock	82.9
22	Lakehead	82.8
23	Victoria	82.7
24	Lethbridge	82.6
25	Alberta	82.3
26	Ryerson	82.2
27	Bishop's	81.6
28	Simon Fraser	81.1
29	Windsor	80.3
30	UPEI	80.2
31	Concordia	80.1
*32	Laval	79.4
*32	Mount Allison	79.4
*34	Calgary	78.6
*34	Trent	78.6
36	Carleton	78.4
37	Regina	78.2
38	Mount Saint Vincent	77.2
39	New Brunswick	76.4
40	Memorial	75.8
41	Brandon	75.5
42	St. Thomas	74.5
43	Laurentian	73.8
44	Nipissing	69.7
45	Winnipeg	62.1
46	Moncton	59.1
47	Cape Breton (UCCB)	56.5



Bishop's has huge out-of-province appeal

OUT OF PROVINCE (FIRST YEAR)

Percentage of students from other provinces

PRIMARILY UNDERGRADUATE

		PER CENT
1	Bishop's	61.2
2	Mount Allison	59.2
3	Acadia	46.5
4	St. Francis Xavier	35.8
5	St. Thomas	32.7
6	Saint Mary's	27.9
7	Lethbridge	17.7
8	UPEI	17.5
9	Brandon	14.3
10	Mount Saint Vincent	12.1
11	Cape Breton (UCCB)	11.9
12	Moncton	9.5
13	Winnipeg	6.1
14	UNBC	5.8
15	Trent	3.3
16	Ryerson	2.7
17	Lakehead	2.1
18	Laurentian	1.4
19	Wilfrid Laurier	0.8
20	Brock	0.6
21	Nipissing	0.5

COMPREHENSIVE

		PER CENT
1	New Brunswick	23.5
2	Concordia	22.8
3	Victoria	13.3
4	Memorial	11.7
5	Carleton	9.2
6	Waterloo	5.6
7	Simon Fraser	4.3
8	Regina	3.8
*9	Guelph	1.5
*9	York	1.5
11	Windsor	0.7

MEOICAL DOCTORAL

1	Dalhousie	52.6
2	McGill	30
3	Alberta	15.2
4	Queen's	14.2
5	Ottawa	13.5
6	UBC	13.4
7	Calgary	12.9
8	Manitoba	9.1
9	Montréal	7.9
10	Saskatchewan	5.8
11	Western	4.6
12	Toronto	3.8
13	Sherbrooke	3.6
14	Laval	2.4
16	McMaster	1.7

*Indicates a tie. Full description of the methodology, page 38.

PHOTOGRAPH BY CHRISTINNE MUSCHI



WHO WE ARE

The Trudeau Foundation establishes a unique dialogue between outstanding scholars in the social sciences and humanities, and creative individuals with an interest in issues of public policy in government, the professions, business, the arts, and the voluntary sector

Well beyond funding research, the Foundation's goal is to generate and enhance public debate on society's major issues and to provide citizens of Canada and the world with a deeper experience of, and commitment to, democracy

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FONDATION TRUDEAU FOUNDATION

INTERNATIONAL (FIRST YEAR)

Percentage of students from outside Canada

PRIMARILY UNDERGRADUATE

		PER CENT
1	Acadia	17
2	Saint Mary's	16.1
3	Bishop's	10.1
4	Lethbridge	9.4
5	Cape Breton (UCC8)	8.4
6	Mount Allison	7.3
7	Brock	6.8
8	Mount Saint Vincent	5.5
9	UPEI	5.1
10	St. Thomas	4.8
11	Laurentian	4.7
12	Winnipeg	4.6
13	Moncton	4
14	Ryerson	3.9
*15	Brandon	3.6
*15	Trent	3.6
17	St. Francis Xavier	2.8
18	Lakehead	2.1
19	UNBC	1.7
20	Wilfrid Laurier	1
21	Nipissing	0.7

COMPREHENSIVE

1	Concordia	11.7
2	Windsor	11.4
*3	Carleton	8.5
*3	Simon Fraser	8.5
5	Victoria	7.1
6	New Brunswick	6.1
7	Waterloo	5
*8	Memorial	4.6
*8	Regina	4.6
10	York	3
11	Guelph	1.7

MEDICAL DOCTORAL

1	McGill	17.9
2	Montréal	12.8
3	Laval	11.5
4	UBC	8.6
5	McMaster	6.8
6	Toronto	6.2
7	Dalhousie	6.1
8	Ottawa	5.8
9	Manitoba	5.1
10	Western	4.8
11	Alberta	3.4
12	Queen's	2.2
13	Calgary	1.9
14	Sherbrooke	1.4
15	Saskatchewan	0.8



Mount Allison students win a high proportion of awards

INTERNATIONAL (GRADUATE)

Percentage of graduate students from outside Canada

COMPREHENSIVE

		PER CENT
1	Windsor	58.7
2	Regina	33.8
3	Waterloo	30
4	Victoria	25.8
5	New Brunswick	25.4
6	Concordia	21.3
7	Memorial	20.9
8	Guelph	20.6
9	Carleton	20.3
10	Simon Fraser	16.8
11	York	15.4

MEDICAL DOCTORAL

1	Saskatchewan	29.3
2	Alberta	26.4
3	Queen's	24.9
4	UBC	23.6
5	McGill	22.8
6	McMaster	21
*7	Dalhousie	20.9
*7	Ottawa	20.9
9	Montréal	20.8
10	Laval	20.3
11	Sherbrooke	17.5
12	Manitoba	17.4
13	Calgary	17
14	Toronto	16.6
15	Western	14.5

STUDENT AWARDS

The five-year tally (1999-2003) of the number of students, per 1,000, who have won national awards.

PRIMARILY UNDERGRADUATE

1	Mount Allison	4.6
2	Winnipeg	3.7
3	Acadia	3.6
4	UNBC	3.4
*5	UPEI	3.1
*5	St. Francis Xavier	3.1
7	Trent	2.6
8	Lakehead	2.4
9	Laurentian	2.3
10	Saint Mary's	2
11	Moncton	1.9
*12	Bishop's	1.7
*12	Lethbridge	1.7
14	Brock	1.2
15	Brandon	1.1
16	Wilfrid Laurier	1
17	Nipissing	0.8
*18	Cape Breton (UCC8)	0.5
*18	Mount Saint Vincent	0.5
20	Ryerson	0.3
21	St. Thomas	0.1

COMPREHENSIVE

1	Waterloo	6.6
2	Simon Fraser	5.6
3	Carleton	5.4
4	Guelph	5.3
5	Victoria	4.5
6	New Brunswick	4.3
7	York	3.2
8	Regina	2.6
9	Memorial	2.5
10	Concordia	2.2
11	Windsor	1.7

MEDICAL DOCTORAL

1	McGill	9.9
2	Queen's	8.5
3	UBC	7.8
4	Toronto	7.7
5	Alberta	7.1
6	Dalhousie	6.9
7	Montréal	6
8	McMaster	5.8
9	Laval	5.7
10	Manitoba	5.2
11	Calgary	5.1
12	Western	4.8
13	Ottawa	4.6
14	Sherbrooke	4.1
15	Saskatchewan	3.1

*Indicates a tie Full description of the methodology page 38

PHOTOGRAPH BY DAN CALLIS



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Small upper-year art class at the University of Saskatchewan

CLASSES

For undergraduates, the classroom is the front line of learning. *Maclean's* takes account of the percentage of students in each of six distinct class-size ranges. And, since tenure is a significant measure of a faculty member's worth, *Maclean's* measures the commitment of universities to placing tenured and tenure-stream professors at the head of first-year classes.

CLASSES TAUGHT BY TENURED FACULTY

Maclean's measures the percentage of first-year classes taught by tenured or tenure-track professors.

PRIMARILY UNDERGRADUATE

		PER CENT
1	UPEI	82
2	Brandon	80.4
3	Mount Allison	77.6
4	Saint Mary's	77.2
5	Cape Breton (UCCB)	76.5
6	Trent	71.5
7	Nipissing	71.2
8	Lakehead	68.2
9	St. Francis Xavier	67.7
10	Ryerson	62.1
11	Laurentian	59.7
12	Lethbridge	58
13	Moncton	55.2
14	St. Thomas	53.6
15	Brock	53.2
16	Acadia	51.2
17	Bishop's	47.9
18	UNBC	45.3
19	Mount Saint Vincent	44.7
20	Winnipeg	43.6
21	Wilfrid Laurier	33.5

COMPREHENSIVE

1	Waterloo	77.2
2	Guelph	74.8
3	New Brunswick	58.7
4	York	57.9
5	Victoria	56.9
6	Windsor	56
7	Concordia	51.9
8	Memorial	49.2
9	Simon Fraser	45.3
10	Regina	44
11	Carleton	35

MEDICAL DOCTORAL

1	Western	73
2	Toronto	68.9
3	Laval	68
4	Sherbrooke	66.6
5	Queen's	62.1
6	Calgary	61.4
7	Saskatchewan	61.1
8	Montréal	60.1
9	Ottawa	58.7
10	McMaster	57.9
11	Dalhousie	54.4
11	UBC	52.9
13	McGill	49.5
14	Alberta	45.9
15	Manitoba	44.3

Full description of the methodology, page 38.

PHOTOGRAPH BY TODD KOROL



PERCENTAGE OF STUDENTS IN EACH CLASS-SIZE RANGE

First- and second-year level

PRIMARILY UNDERGRADUATE

		1-25	26-50	51-100	101-250	251-500	500+
1	Cape Breton (UCCB)	31.04	43.17	16.27	3.53	none	none
2	Bishop's	25.08	44.33	27.97	2.62	none	none
*3	Brandon	26.69	33.33	30.78	9.2	none	none
*3	Moncton	23.67	41.06	24.56	10.71	none	none
*3	Mount Saint Vincent	22.63	40.13	29.72	7.52	none	none
6	Winnipeg	13.93	44.54	35.95	5.58	none	none
7	St. Thomas	15.73	29.97	54.3	none	none	none
8	St. Francis Xavier	13.48	43.12	31.74	9.79	1.87	none
9	Trent	43.09	14.6	14.61	10.47	17.23	none
10	UNBC	27.24	24.71	23.96	24.09	none	none
11	Acadia	11.03	40.86	39.21	5.17	3.72	none
12	UPEI	19.74	32.77	31.67	7.48	8.33	none
13	Lethbridge	12.22	28.06	33.83	25.89	none	none
14	Saint Mary's	8.57	32.23	33.98	24.04	1.18	none
15	Nipissing	13.62	21.34	32.31	32.73	none	none
16	Mount Allison	9.83	22.47	40.67	27.03	none	none
17	Laurentian	15.65	21.48	29.92	24.05	8.89	none
18	Lakehead	10.02	20.58	39.43	24.83	5.14	none
19	Ryerson	4.02	30.12	36.81	23.84	5.21	none
20	Wilfrid Laurier	5.51	17.18	36.63	28.59	12.09	none
21	Brock	5.4	22.21	19.08	28.72	24.59	none

COMPREHENSIVE

1	Memorial	9.41	43.5	32.75	7.67	6.67	none
2	Concordia	13.32	30.92	41.08	11.14	0.59	2.96
*3	New Brunswick	14.85	30.77	34.35	14.98	5.04	none
*3	Regina	17.14	32.87	21.86	24.33	3.8	none
5	Waterloo	18.19	19.66	31.82	26.85	3.48	none
6	Victoria	11.85	20.61	31.66	29.96	5.93	none
7	Guelph	22.92	16.96	12.69	27.06	11.71	8.65
8	Simon Fraser	13.67	13.54	20.83	36.61	15.36	none
9	Carleton	6.83	12.24	29.09	33.2	16.64	none
10	Windsor	5.23	9.97	23.4	33.33	22.07	none
11	York	7.21	7.62	20.62	41.1	18.58	4.67

MEDICAL DOCTORAL

1	Sherbrooke	19.55	41.59	32.1	6.76	none	none
2	Laval	20.82	16.89	31.25	28.89	2.16	none
3	Montréal	14.26	19.7	44.71	18.45	2.86	none
4	Saskatchewan	16.51	25.1	25.58	26.8	6.01	none
5	Western	16.65	19.72	32	18.69	10.56	2.38
6	Ottawa	10.36	17.08	29.24	38.9	4.42	none
7	Dalhousie	7.53	19.71	29.7	33.15	8.32	1.59
8	Manitoba	7.4	17.54	28.03	41.02	5.99	none
9	UBC	9.82	15.62	22.96	42.31	8.21	1.09
10	Calgary	6.75	15.22	27.96	41.48	8.6	none
11	Alberta	7.75	15.61	26.68	34.43	15.54	none
12	McGill	9.07	13.43	25.91	32.72	11.34	7.52
13	Queen's	4.91	9.46	24.51	38	21.8	1.33
14	McMaster	3.23	11.29	14.19	44.43	25.98	0.88
15	Toronto	6.03	9.37	19.86	35.25	20.23	9.25

PERCENTAGE OF STUDENTS IN EACH CLASS-SIZE RANGE

Third- and fourth-year level

PRIMARILY UNDERGRADUATE

		1-25	26-50	51-100	101-250	251-500	500+
1	Mount Saint Vincent	70.96	29.04	none	none	none	none
2	Bishop's	71.15	25.18	3.68	none	none	none
*3	Brandon	59.15	38.69	2.16	none	none	none
*3	Cape Breton (UCCB)	60.16	36.56	3.28	none	none	none
5	Laurentian	57.17	33.01	9.82	none	none	none
6	Acadia	45.74	49.77	4.49	none	none	none
7	Mount Allison	50.85	36.98	12.18	none	none	none
8	Nipissing	43.49	50.78	5.74	none	none	none
*9	St. Francis Xavier	47.37	41.45	11.18	none	none	none
*9	Trent	53.54	30.53	14.18	1.74	none	none
11	Moncton	46.55	40.58	10.97	1.5	none	none
12	UPEI	47.93	35.04	13.72	3.31	none	none
13	Saint Mary's	36.25	51.99	11.76	none	none	none
14	Winnipeg	40.38	46.35	5.91	7.36	none	none
15	Lethbridge	37.33	40.96	21.71	none	none	none
16	UNBC	26.78	52.53	18.7	none	none	none
17	Lakehead	30.42	47.09	20.04	2.44	none	none
18	Brock	26.14	53.96	15.01	4.89	none	none
19	Wilfrid Laurier	21.95	53.8	22.32	1.93	none	none
20	St. Thomas	36.02	22.47	41.51	none	none	none
21	Ryerson	13.46	40.36	34.25	11.92	none	none

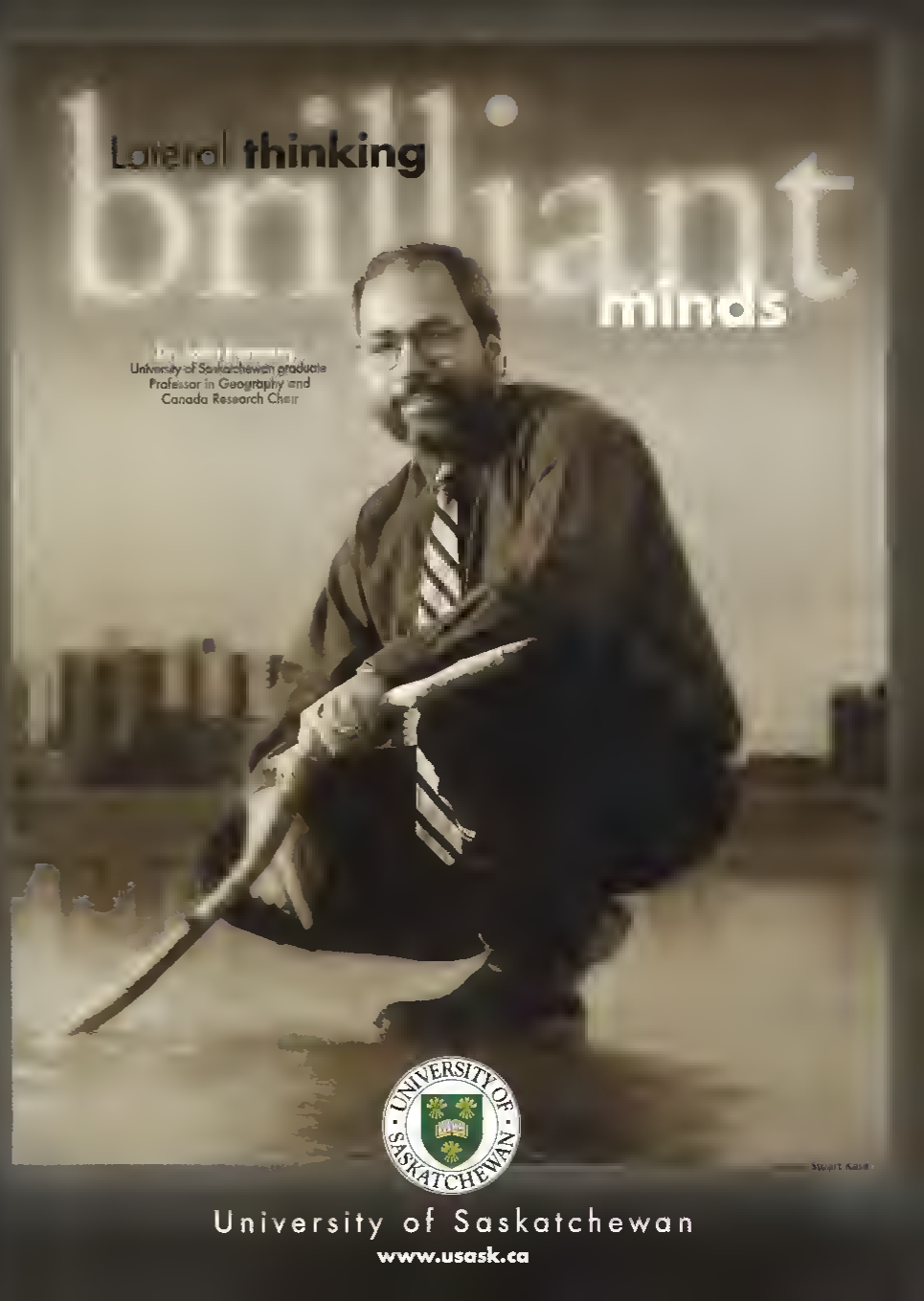
COMPREHENSIVE

1	Regina	43.97	44.69	9.89	1.45	none	none
2	New Brunswick	34.43	42.45	20.39	1.34	1.38	none
3	Memorial	31.61	50.62	11.49	4.59	1.69	none
4	Victoria	30.17	38.72	24.12	6.99	none	none
*5	Concordia	27.82	40.83	24.19	5.24	1.92	none
*5	Windsor	23.94	41.62	31.07	3.16	none	none
7	Guelph	42.3	17.58	23.31	15.66	1.15	none
8	York	27.54	31.77	29.89	10.8	none	none
9	Simon Fraser	25.7	34.92	28.39	9.35	1.64	none
10	Waterloo	22.36	28.5	36.4	10.94	1.79	none
11	Carleton	22.45	28.87	33.58	13.34	1.75	none

MEDICAL DOCTORAL

1	Saskatchewan	35.97	41.83	17.67	4.53	none	none
2	Western	39.69	35.3	17.96	7.05	none	none
3	Sherbrooke	24.36	50.92	22.74	1.98	none	none
4	Dalhousie	34.92	32.68	25.11	7.29	none	none
5	McGill	33.07	36.49	23.04	5.65	1.75	none
6	Laval	36.51	28.17	24.76	10.56	none	none
7	Manitoba	30.95	29.27	33.39	6.38	none	none
8	Calgary	25.77	40.73	24.85	8.65	none	none
9	Montréal	26.57	35.9	31.56	5.98	none	none
10	Ottawa	26.55	31.36	33.42	8.66	none	none
11	Alberta	26.32	27.74	28.43	16.32	1.19	none
12	Queen's	24.71	30.94	25.46	17.54	1.35	none
13	Toronto	22.25	30.12	30.74	14.53	2.37	none
14	UBC	15.14	28.78	32.29	18.37	5.42	none
15	McMaster	19.87	21.84	28.87	26.11	3.31	none

*Indicates a tie Full description of the methodology page 38



FACULTY

The calibre of the faculty is vital to the students' own development. *Maclean's* calculates the percentage of faculty with a Ph.D. It also measures their success at winning national awards and peer-adjudicated grants from the three main federal granting agencies, as well as from the Canada Council.



FACULTY AWARDS

The five-year tally (1999-2003) of the number of full-time professors, per 1,000, who have won national awards.

PRIMARILY UNDERGRADUATE

1	Mount Allison	6.6
2	UPEI	5.3
3	Trent	4.1
4	Lethbridge	3.8
*5	Brandon	2.8
*5	Brock	2.8
7	St. Thomas	2.7
8	Laurentian	2.6
9	Nipissing	2.5
10	Acadia	2
11	Saint Mary's	1.9
12	Wilfrid Laurier	1.8
*13	Lakehead	1.7
*13	Winnipeg	1.7
15	Mount Saint Vincent	1.4
16	Cape Breton (UCCB)	1.2
17	Ryerson	1.1
18	St. Francis Xavier	1
19	Moncton	0.5
*20	Bishop's	none
*20	UNBC	none

COMPREHENSIVE

1	Waterloo	6.5
2	Victoria	6
3	York	5.5
4	Simon Fraser	5.2
5	New Brunswick	3.2
6	Guelph	2.8
7	Windsor	2.4
8	Carleton	2.3
9	Concordia	1.1
10	Memorial	1
11	Regina	0.9

MEDICAL DOCTORAL

1	Queen's	13.7
2	Toronto	10.8
3	McGill	8.9
4	UBC	8.8
5	Alberta	6.4
6	Montréal	5.9
7	Ottawa	5.6
8	McMaster	4.8
9	Laval	4.2
10	Western	4
11	Calgary	3.6
12	Sherbrooke	3.5
13	Saskatchewan	3.4
14	Dalhousie	2.2
15	Manitoba	1.8

FACULTY WITH PH.D.s

Maclean's measures the percentage of full-time faculty with a Ph.D

PRIMARILY UNDERGRADUATE

		PER CENT
1	Saint Mary's	94.7
2	Wilfrid Laurier	92.1
3	Mount Allison	91.7
4	St. Thomas	91.3
*5	Lakehead	90.6
*5	UNBC	90.6
7	Trent	88
8	St. Francis Xavier	87.7
9	Acadia	86.2
10	Brock	85.3
11	Laurentian	83.9
12	UPEI	83.5
13	Mount Saint Vincent	82.1
14	Winnipeg	79.5
15	Brandon	79.4
16	Lethbridge	78.7
17	Bishop's	75.5
18	Nipissing	73.6
19	Moncton	71.6
20	Ryerson	69.8
21	Cape Breton (UCCB)	46.3

COMPREHENSIVE

		PER CENT
1	Guelph	98.1
2	York	95.5
3	Concordia	94.5
4	Victoria	93.3
5	Carleton	92.8
*6	Waterloo	92.7
*6	Windsor	92.7
8	Simon Fraser	92
9	Memorial	87.4
10	New Brunswick	86.5
11	Regina	72.2

MEDICAL DOCTORAL

*1	Alberta	98.9
*1	UBC	98.9
3	Toronto	98.6
4	Western	98.3
5	Laval	97.8
6	Ottawa	97.2
7	McMaster	96.9
8	Manitoba	95.9
9	Queen's	95.3
10	Montréal	94.4
11	McGill	94.3
12	Saskatchewan	93.7
*13	Dalhousie	92.7
*13	Sherbrooke	92.7
15	Calgary	91.9



Award-winning prof Donato Santeramo teaching Italian at Queen's; Simon Fraser (opposite), tops for social science and humanities grants

SOCIAL SCIENCES AND HUMANITIES GRANTS

Below are the average size and number of peer-adjudicated research grants from both the Social Sciences and Humanities Research Council and the Canada Council. The size of grants is listed per eligible full-time faculty member; the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two

PRIMARILY UNDERGRADUATE

1	UPEI	$7,425	28.05
2	UNBC	6,833	20.99
3	St. Francis Xavier	5,674	22.12
4	Wilfrid Laurier	3,794	15.3
5	Trent	3,273	16.67
6	Saint Mary's	3,444	15.09
7	Acadia	4,324	11.4
8	Brock	3,207	13.55
*9	Brandon	4,048	10.11
*9	Mount Saint Vincent	3,090	13.51
11	Lakehead	3,756	10.87
12	Winnipeg	2,332	8.67
13	Moncton	2,105	11.11
14	Mount Allison	2,872	7.78
15	Lethbridge	2,477	8.68
16	St. Thomas	2,358	8.14
17	Ryerson	1,637	5.76
18	Bishop's	983	4.94
19	Cape Breton (UCCB)	813	4.29
20	Nipissing	414	4.65
21	Laurentian	496	2.83

COMPREHENSIVE

1	Simon Fraser	$9,399	41.81
2	Concordia	8,112	23.91
3	Waterloo	7,127	22.26
4	Victoria	6,867	22.86
5	Carleton	6,472	18.48
6	Regina	6,618	16.14
7	Guelph	5,915	17.48
8	York	5,830	14.75
9	New Brunswick	5,109	12.5
10	Memorial	4,902	8.75
11	Windsor	3,482	13.64

MEDICAL DOCTORAL

1	McGill	$19,506	61.96
2	Toronto	20,719	57.17
3	UBC	15,105	47.99
4	Montréal	15,629	37.3
5	Ottawa	11,396	33.48
6	Alberta	10,464	32.8
7	McMaster	9,706	31.62
8	Queen's	8,902	29.79
9	Dalhousie	7,819	27.9
10	Laval	8,531	25.48
11	Western	8,311	25.53
12	Saskatchewan	7,295	18.4
13	Manitoba	6,269	20.45
14	Calgary	5,510	19.89
15	Sherbrooke	5,891	14.5

MEDICAL/SCIENCE GRANTS

Here are the average size and number of peer-adjudicated research grants from both the Natural Sciences and Engineering Research Council and the Canadian Institutes of Health Research. The size of grants is listed per eligible full-time faculty member, the number of grants is per 100 eligible full-time faculty members. The ranking reflects a weighted average of the two.

PRIMARILY UNDERGRADUATE

1	Trent	$36,232	89.23
2	Lethbridge	26,320	85.9
3	St. Francis Xavier	23,546	82.35
4	Lakehead	18,936	74.31
5	Mount Allison	16,555	76.92
6	Brock	21,077	64.42
7	Ryerson	16,482	72.22
8	Wilfrid Laurier	16,855	69.74
9	UPEI	20,343	49.18
10	Acadia	14,309	63.51
11	Saint Mary's	13,953	62.9
12	Laurentian	16,766	49.04
13	UNBC	10,415	46.15
14	Winnipeg	10,693	43.86
15	Moncton	8,700	45.35
16	Nipissing	7,226	47.62
17	Bishop's	4,625	35
18	Cape Breton (UCCB)	3,285	22.58
19	Brandon	3,764	20.69
20	Mount Saint Vincent	1,485	9.09
–	St. Thomas†	N/A	N/A

COMPREHENSIVE

1	Victoria	$74,103	153.6
2	Simon Fraser	66,860	154.09
3	Guelph	63,866	131.93
4	Waterloo	54,899	120.62
5	Concordia	36,613	120.09
6	Carleton	38,705	103.08
7	York	39,604	95.04
8	Windsor	30,232	100.96
9	Regina	25,630	85.71
10	New Brunswick	23,581	78.6
11	Memorial	27,591	61.89

MEDICAL DOCTORAL

1	Toronto	$126,520	218.25
2	McGill	111,852	161.38
3	Alberta	84,031	168.12
4	UBC	92,459	152.14
5	Western	84,162	152.01
6	Montréal	90,428	133.57
7	McMaster	78,282	130.1
8	Laval	74,439	126.15
9	Ottawa	72,827	126.93
*10	Calgary	72,167	118.49
*10	Queen's	81,948	103.21
12	Sherbrooke	55,142	99.42
13	Dalhousie	43,649	88.35
14	Manitoba	44,526	82.8
15	Saskatchewan	37,278	74.6

*Indicates a tie. Full description of the methodology, page 38

PHOTOGRAPH BY CHRISTOPHER MORRIS; PHOTOGRAPHY BY CHRISTINNE MUSCHI

†St. Thomas is exempted from reporting information for this indicator as it does not offer science programs. Its overall score is calculated on the remaining indicators

FINANCES

The financial resources at a university's disposal determine its ability to provide students with many valuable opportunities. *Maclean's* measures the size of the operating budget per weighted full-time-equivalent student, as well as the percentage of the budget devoted to student services and to scholarships and bursaries.

OPERATING BUDGET

Operating expenditures per weighted full-time-equivalent student

PRIMARILY UNDERGRADUATE

1	Mount Allison	$10,960
2	UNBC	10,455
3	UPEI	10,152
4	Brandon	9,542
5	Bishop's	9,478
6	Moncton	8,843
7	St. Francis Xavier	8,530
8	Laurentian	8,494
9	Lethbridge	8,474
10	Trent	8,413
11	Acadia	8,376
12	Nipissing	8,011
13	Saint Mary's	8,001
14	Lakehead	7,487
15	St. Thomas	7,408
16	Cape Breton (UCCB)	7,220
17	Mount Saint Vincent	7,184
18	Ryerson	7,071
19	Wilfrid Laurier	6,662
20	Brock	6,151
21	Winnipeg	6,119

COMPREHENSIVE

1	Simon Fraser	$10,209
2	Victoria	9,322
3	Regina	9,065
4	Memorial	8,909
5	Guelph	8,753
6	Waterloo	8,347
7	New Brunswick	7,905
8	Windsor	7,904
9	Carleton	7,580
10	York	7,331
11	Concordia	7,259

MEDICAL DOCTORAL

1	Toronto	$9,878
2	Saskatchewan	9,611
3	Ottawa	9,532
4	Montréal	9,490
5	Alberta	9,467
6	McGill	8,860
7	Calgary	8,684
8	Laval	8,628
9	Western	8,500
10	Dalhousie	8,472
11	McMaster	8,451
12	Manitoba	8,108
13	Queen's	8,053
14	Sherbrooke	7,836
15	UBC	7,110

SCHOLARSHIPS & BURSARIES

Percentage of total operating expenditures devoted to scholarships and bursaries

PRIMARILY UNDERGRADUATE

		PER CENT
1	Trent	9.82
2	Wilfrid Laurier	8.85
3	Lakehead	8.61
4	Laurentian	8.51
5	Nipissing	6.66
6	Bishop's	6.54
7	St. Thomas	6.53
8	Brock	6.16
9	Ryerson	5.93
10	St. Francis Xavier	5.43
11	Lethbridge	5.08
12	Moncton	4.87
13	Saint Mary's	4.74
14	UPEI	4.68
15	Mount Allison	4.58
16	Acadia	4.02
17	Mount Saint Vincent	3.96
18	UNBC	3.41
19	Winnipeg	3.31
20	Brandon	2.41
21	Cape Breton (UCCB)	2.2

COMPREHENSIVE

1	Carleton	12.03
2	York	10.51
3	Waterloo	8.9
4	Guelph	8.19
5	Regina	7.99
6	Victoria	7.81
7	Windsor	6.73
8	Simon Fraser	6.68
9	Memorial	5.82
10	New Brunswick	4.33
11	Concordia	4.27

MEDICAL DOCTORAL

1	Western	15.88
2	Queen's	14
3	Toronto	13.29
4	Alberta	12.47
5	UBC	12.14
6	Sherbrooke	11.81
7	McMaster	11.53
8	McGill	11.34
9	Ottawa	10.53
10	Calgary	10.26
11	Montréal	10.2
12	Dalhousie	10.16
13	Laval	7.94
14	Manitoba	5.42
15	Saskatchewan	5.11

STUDENT SERVICES

Percentage of total operating expenditures devoted to student services

PRIMARILY UNDERGRADUATE

		PER CENT
1	Bishop's	10.27
2	Lethbridge	9.84
3	St. Thomas	9.51
4	Winnipeg	9.03
5	Wilfrid Laurier	7.4
6	Brock	7.2
7	Cape Breton (UCCB)	7.11
8	UNBC	6.77
9	Ryerson	6.76
10	St. Francis Xavier	6.56
11	Moncton	6.46
*12	Mount Allison	5.94
*12	Nipissing	5.94
14	Saint Mary's	5.69
15	Lakehead	5.45
16	Acadia	5.27
17	Trent	5.26
18	Brandon	5.16
19	Laurentian	4.98
20	UPEI	4.53
21	Mount Saint Vincent	4.02

COMPREHENSIVE

1	Windsor	6.98
2	Guelph	6.93
3	York	6.35
4	Carleton	5.81
5	Memorial	5.57
6	Victoria	5.33
7	Waterloo	5.18
8	Simon Fraser	4.99
9	Regina	4.47
10	New Brunswick	4.04
11	Concordia	3.62

MEDICAL DOCTORAL

1	UBC	8.05
2	Toronto	7.37
3	McMaster	6.53
4	Ottawa	5.72
5	McGill	5.46
*6	Calgary	5.16
*6	Western	5.16
8	Alberta	4.77
9	Queen's	4.6
10	Laval	4.42
11	Montréal	4.34
12	Sherbrooke	4.33
13	Dalhousie	4.04
14	Manitoba	3.93
15	Saskatchewan	3.66

*indicates a tie. Full description of the methodology, page 36

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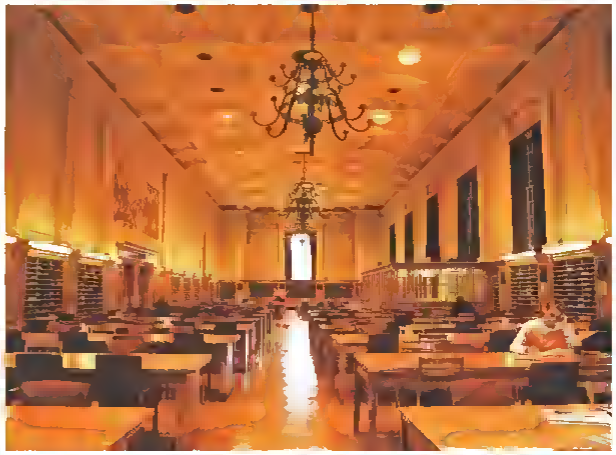
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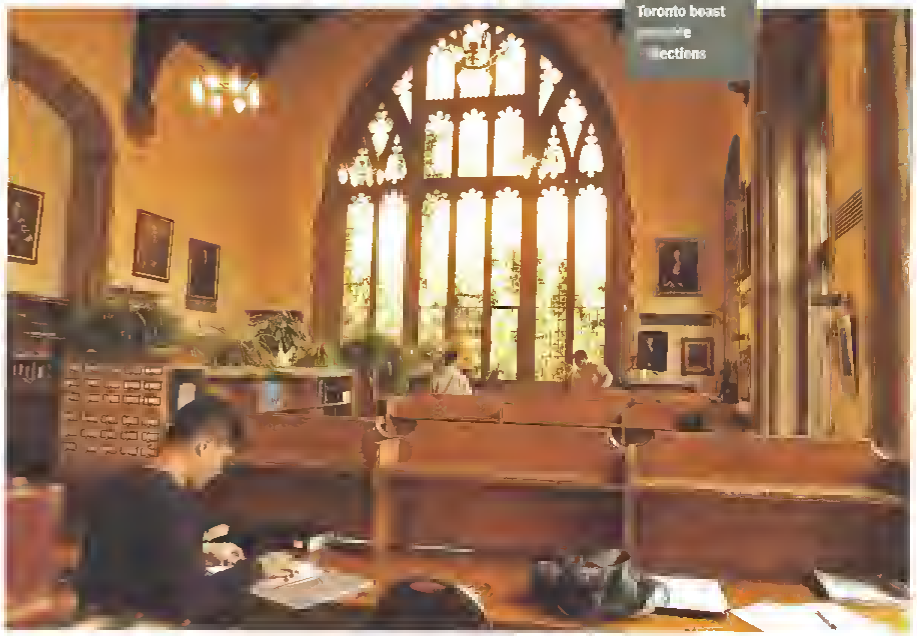
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* ASK ABOUT JANUARY START

LIBRARY

The library is the heart of many campuses. *Maclean's* measures the commitment to library funding, including electronic access, as well as the collection's size and currency.





Both Alberta (above) and Toronto boast [illegible] collections

TOTAL LIBRARY HOLDINGS
This indicator measures total holdings in all campus libraries, acknowledging the importance of extensive on-campus collections at Medical Doctoral universities.

MEDICAL DOCTORAL

		IN MILLIONS
1	Toronto	14.468
2	Alberta	10.029
3	UBC	8.903
4	Western	7.904
5	Queen's	5.402
6	Montréal	5.202
7	Calgary	5.09
8	McGill	4.919
9	Laval	4.716
10	Saskatchewan	4.387
11	Ottawa	4.279
12	Manitoba	3.211
13	McMaster	3.116
14	Dalhousie	2.252
15	Sherbrooke	1.859

Full description of the methodology, page 38.
PHOTOGRAPH BY IAN JACKSON (TOP); PHOTOGRAPH BY PETER BREGG/MACLEAN'S

HOLDINGS PER STUDENT

These figures show the number of volumes in all campus libraries, divided by the number of full-time-equivalent students.

PRIMARILY UNDERGRADUATE

1	Brandon	400
2	Mount Allison	372
3	Acadia	291
4	St. Thomas	277
5	UPEI	272
6	Moncton	269
7	Mount Saint Vincent	256
8	Bishop's	237
9	UNBC	214
10	Lethbridge	213
11	St. Francis Xavier	212
12	Lakehead	197
13	Cape Breton (UCCB)	182
14	Laurentian	178
15	Trent	160
16	Saint Mary's	147
17	Wilfrid Laurier	140
18	Nipissing	134
19	Brock	125
20	Winnipeg	91
21	Ryerson	62

COMPREHENSIVE

1	Memorial	282
2	New Brunswick	277
3	Victoria	235
4	Guelph	213
5	Regina	194
6	Windsor	190
7	Carleton	167
8	Waterloo	157
9	York	138
10	Simon Fraser	127
11	Concordia	123

MEDICAL DOCTORAL

1	Alberta	337
2	Queen's	289
3	Saskatchewan	286
4	Western	283
5	Toronto	258
6	UBC	253
7	Calgary	210
8	McGill	200
9	Laval	189
10	Ottawa	176
11	Dalhousie	167
12	McMaster	156
13	Manitoba	155
14	Montréal	145
15	Sherbrooke	138

ACQUISITIONS

To gauge the currency of resources, *Maclean's* measures the proportion of the library budget allocated to updating the university's collection, including electronic access.

PRIMARILY UNDERGRADUATE

		PER CENT
1	UNBC	50.27
2	Lakehead	45.28
3	Mount Saint Vincent	41.36
4	St. Francis Xavier	40.6
5	Brandon	38.83
6	Ryerson	38.61
7	Brock	38.55
8	Moncton	38.14
9	Acadia	37.72
10	Nipissing	36.77
11	Wilfrid Laurier	36.42
12	Trent	35.4
13	Laurentian	35.31
14	Winnipeg	34.55
15	UPEI	33.54
16	Bishop's	32.75
17	Lethbridge	32.09
18	Cape Breton (UCCB)	31.77
19	Mount Allison	31.4
20	St. Thomas	31.39
21	Saint Mary's	29.67

COMPREHENSIVE

1	Waterloo	44.23
2	Regina	44.15
3	Simon Fraser	41.86
4	Guelph	41.46
5	Victoria	41.04
6	Memorial	40.9
7	Windsor	39.43
8	York	36.87
9	Carleton	34.54
10	New Brunswick	31.39
11	Concordia	28.83

MEDICAL DOCTORAL

1	Western	58.1
2	Queen's	50.79
3	Toronto	50.66
4	Saskatchewan	49.97
5	Sherbrooke	49.54
6	Laval	49.28
7	McGill	47.97
8	Alberta	47.84
9	Ottawa	46.85
10	McMaster	46.35
11	Calgary	44.62
12	Dalhousie	42.75
13	Manitoba	41.62
14	UBC	41.5
15	Montréal	40.48

EXPENSES

A measure of financial commitment this indicator shows the percentage of the university budget devoted to maintaining library services

PRIMARILY UNDERGRADUATE

		PER CENT
1	Bishop's	6.83
2	Winnipeg	6.76
3	UNBC	6.74
4	Mount Allison	6.31
5	Moncton	5.8
6	Lethbridge	5.39
7	Lakehead	5.37
8	Brandon	5.36
9	Trent	5.3
10	Wilfrid Laurier	5.19
11	Brock	5.11
12	Acadia	5.1
13	St. Thomas	4.94
14	Saint Mary's	4.91
15	Laurentian	4.77
16	St. Francis Xavier	4.69
17	UPEI	4.6
18	Cape Breton (UCCB)	4.39
19	Nipissing	3.84
20	Mount Saint Vincent	3.78
21	Ryerson	3.77

COMPREHENSIVE

1	Memorial	6.83
2	New Brunswick	6.56
3	Simon Fraser	6.26
4	Carleton	5.94
5	Windsor	5.71
6	Victoria	5.63
7	Waterloo	5.59
8	York	5.51
9	Regina	5.44
10	Guelph	5.39
11	Concordia	4.37

MEDICAL DOCTORAL

1	Toronto	8.3
2	UBC	7.81
3	Western	7.74
4	Manitoba	7.6
5	Alberta	7.3
6	McGill	7.27
7	Queen's	6.82
8	Saskatchewan	6.65
9	Calgary	6.07
10	Montréal	5.78
11	McMaster	5.25
12	Ottawa	5.14
13	Dalhousie	5.02
14	Laval	4.95
15	Sherbrooke	4.63

Full description of the methodology, page 38



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To learn more about the awards and how we are making a difference visit http://www.mcmaster.ca/3Mteachingfellowships

Look for exciting 20th Anniversary news, coming in 2005!

3M Innovation

REPUTATION

A solid reputation attracts the best students and faculty—and gives graduates an enviable calling card. *Maclean's* measures a university's reputation with the community at large, as well as with its own alumni.



Innovative Waterloo topped the reputational survey this year

PHOTOGRAPH BY PETER BREGG/MACLEAN'S

NATIONAL REPUTATIONAL RANKING

This ranking combines all 47 universities from the three categories into one group. It reflects the opinion of a diverse range of voices: high-school principals and guidance counsellors from every province and territory, university officials at each ranked institution, the heads of a wide variety of national and regional organizations, plus CEOs and recruiters at corporations large and small.

When soliciting the views of the various respondents, *Maclean's* asked each individual to complete a national survey. University officials, principals and guidance counsellors also completed regional surveys. Consulting statisticians from McDougall Scientific Ltd. combined the two surveys to produce the final results.

	BEST OVERALL	HIGHEST QUALITY	MOST INNOVATIVE	LEADERS OF TOMORROW
1	Waterloo	Queen's	Waterloo	Toronto
2	Toronto	McGill	McMaster	Waterloo
3	Queen's	Toronto	Guelph	Alberta
4	McGill	Waterloo	Toronto	Queen's
5	Guelph	UBC	Queen's	UBC
6	McMaster	McMaster	Alberta	Guelph
7	Alberta	Alberta	McGill	McGill
8	UBC	Guelph	UBC	McMaster
9	Western	Western	Western	Sherbrooke
10	Simon Fraser	Victoria	Simon Fraser	Saskatchewan
11	Sherbrooke	Mount Allison	Sherbrooke	Montréal
12	Saskatchewan	Dalhousie	Acadia	Simon Fraser
13	Victoria	Simon Fraser	Victoria	Calgary
14	Montréal	St. Francis Xavier	Saskatchewan	Western
15	Acadia	Montréal	Ryerson	Victoria
16	Dalhousie	Saskatchewan	Montréal	Laval
17	St. Francis Xavier	Acadia	Dalhousie	Ryerson
18	Calgary	Wilfrid Laurier	St. Francis Xavier	Acadia
19	Wilfrid Laurier	Sherbrooke	Wilfrid Laurier	St. Francis Xavier
20	Laval	Laval	Memorial	York
21	Mount Allison	Calgary	Laval	Dalhousie
22	Ryerson	Memorial	Calgary	Memorial
23	Memorial	Ottawa	York	Manitoba
24	York	York	Mount Allison	Wilfrid Laurier
25	Ottawa	New Brunswick	Ottawa	UNBC
26	New Brunswick	Ryerson	New Brunswick	Ottawa
27	Manitoba	Manitoba	Brock	Brock
28	Brock	Trent	Trent	Concordia
29	Trent	Saint Mary's	Carleton	Lethbridge
30	Concordia	Bishop's	Manitoba	Mount Allison
31	Lethbridge	Lethbridge	Concordia	Regina
32	Carleton	Brock	Saint Mary's	Winnipeg
33	Regina	Regina	Lethbridge	Trent
34	Saint Mary's	Carleton	Regina	Laurentian
35	Winnipeg	Concordia	UNBC	New Brunswick
36	UNBC	Winnipeg	Winnipeg	Carleton
37	Bishop's	Mount Saint Vincent	*Mount Saint Vincent	Nipissing
38	Mount Saint Vincent	St. Thomas	*Windsor	Lakehead
39	St. Thomas	UPEI	UPEI	Saint Mary's
40	Windsor	Windsor	St. Thomas	St. Thomas
41	UPEI	Moncton	Lakehead	Brandon
42	Laurentian	UNBC	Bishop's	Mount Saint Vincent
43	Lakehead	Lakehead	Laurentian	Moncton
44	Moncton	Brandon	Nipissing	Windsor
45	Nipissing	Laurentian	Moncton	UPEI
46	Brandon	Nipissing	Brandon	Bishop's
47	Cape Breton (UCCB)	Cape Breton (UCCB)	Cape Breton (UCCB)	Cape Breton (UCCB)

*Indicates a tie Full description of the methodology page 38

ALUMNI SUPPORT

Maclean's measures the percentage of alumni who made gifts to the university over a five year period

PRIMARILY UNDERGRADUATE

		PER CENT
1	St. Francis Xavier	37.2
2	Saint Mary's	25.2
3	Winnipeg	23.8
4	Mount Allison	23
5	Bishop's	22.3
6	St. Thomas	20.3
7	Mount Saint Vincent	18.7
8	Trent	17.9
9	UPEI	17.1
*10	Moncton	16.9
*10	Wilfrid Laurier	16.9
12	Lakehead	13.8
13	Acadia	12.9
14	Brock	11.1
15	Ryerson	9.8
16	Nipissing	9.7
17	Cape Breton (UCCB)	8.4
18	Lethbridge	6.9
19	Laurentian	5.2
20	Brandon	4.2
–	UNBC†	N/A

COMPREHENSIVE

1	Waterloo	19.2
2	Guelph	17.1
3	Concordia	15.2
4	Simon Fraser	14.8
5	Windsor	14.7
6	Memorial	13.3
7	New Brunswick	11.8
8	Carleton	11.7
9	Victoria	11.1
10	York	9.6
11	Regina	4.3

MEDICAL DOCTORAL

1	Toronto	26.8
2	Western	25.8
3	McGill	18.8
4	Sherbrooke	18.5
5	Queen's	16.2
6	Montréal	15.9
7	Manitoba	14.8
8	Alberta	14.7
9	UBC	14.5
10	Calgary	14.1
11	Dalhousie	13.9
12	McMaster	13.6
13	Ottawa	13.5
14	Saskatchewan	13.4
15	Laval	12.4

†UNBC is exempted from reporting information for this indicator. Since this measure calculates alumni gifts over a five-year period, UNBC's relative youth precludes it from responding. Its overall score is calculated on the remaining indicators.

VALUE ADDED

Which universities get top marks for going the distance with their students? In this output measure, consulting statisticians from McDougall Scientific Ltd. juxtaposed two sets of figures and identified those universities with the greatest difference between the two. The first set includes measures related to the incoming student: average entering grade and the proportion of students entering with averages of 75 per cent or higher. The second examines one measure of student satisfaction—the percentage of first-year students who return in second year—and two measures of student achievement: the proportion of students who graduate within a reasonable time frame and who win student awards.

1	Lakehead
2	Trent
3	Saint Mary's
4	Windsor
5	Laurentian
6	York
7	Memorial
8	Nipissing
*9	Brock
*9	Carleton
11	UPEI
12	Manitoba
*13	New Brunswick
*13	Toronto
15	Lethbridge

*Indicates a tie.



Learning at Lakehead

THE MACLEAN'S DIRECTORY

Every university in the *Maclean's* survey has a unique history, a distinct mission—and its own particular strengths. The student numbers below refer to the 2003-2004 academic year.

ACADIA
Wolfville, N.S. (1838)
Full-time students: 4,074
Part-time students: 364

ALBERTA
Edmonton, Alta. (1908)
Full-time students: 30,258
Part-time students: 4,109

BISHOP'S
Lennoxville, Que. (1843)
Full-time students: 2,165
Part-time students: 502

BRANDON
Brandon, Man. (1899)
Full-time students: 2,164
Part-time students: 1,121

BRITISH COLUMBIA (UBC)
Vancouver, B.C. (1908)
Full-time students: 28,830
Part-time students: 12,115

BROCK
St. Catharines, Ont. (1964)
Full-time students: 10,485
Part-time students: 5,042

CALGARY
Calgary, Alta. (1966)
Full-time students: 23,837
Part-time students: 4,798

CAPE BRETON (UCCB)
Sydney, N.S. (1974)
Full-time students: 2,652
Part-time students: 712

CARLETON
Ottawa, Ont. (1942)
Full-time students: 17,524
Part-time students: 3,187

CONCORDIA
Montreal, Que. (1974)
Full-time students: 18,576
Part-time students: 11,617

DALHOUSIE
Halifax, N.S. (1818)
Full-time students: 13,195
Part-time students: 2,333

GUELPH
Guelph, Ont. (1964)
Full-time students: 16,815
Part-time students: 1,579

LAKEHEAD
Thunder Bay, Ont. (1965)
Full-time students: 5,850
Part-time students: 1,454

LAURENTIAN
Sudbury, Ont. (1960)
Full-time students: 4,809
Part-time students: 2,756

LAVAL
Quebec City, Que. (1663)
Full-time students: 26,843
Part-time students: 16,834

LETHBRIDGE
Lethbridge, Alta. (1967)
Full-time students: 6,512
Part-time students: 890

MANITOBA
Winnipeg, Man. (1877)
Full-time students: 19,489
Part-time students: 7,019

McGILL
Montreal, Que. (1821)
Full-time students: 24,226
Part-time students: 5,188

McMASTER
Hamilton, Ont. (1887)
Full-time students: 18,384
Part-time students: 3,237

MEMORIAL
St. John's and Corner Brook, Nfld. (1925)
Full-time students: 13,848
Part-time students: 3,103

MONCTON
Moncton, Edmundston and Shippagan, N.B. (1963)
Full-time students: 5,027
Part-time students: 1,465

MONTRÉAL
Montreal, Que. (1878)
Full-time students: 37,053
Part-time students: 17,406

MOUNT ALLISON
Sackville, N.B. (1839)
Full-time students: 2,200
Part-time students: 783

MOUNT SAINT VINCENT
Halifax, N.S. (1873)
Full-time students: 2,309
Part-time students: 1,955

NEW BRUNSWICK (UNB)
Fredericton and Saint John, N.B. (1785)
Full-time students: 10,614
Part-time students: 2,028

NIPISSING
North Bay, Ont. (1992)
Full-time students: 2,908
Part-time students: 2,570

NORTHERN BRITISH COLUMBIA (UNBC)
Prince George, B.C. (1994)
Full-time students: 2,456
Part-time students: 1,219

OTTAWA
Ottawa, Ont. (1848)
Full-time students: 23,666
Part-time students: 6,509

PRINCE EDWARD ISLAND (UPEI)
Charlottetown, P.E.I. (1969)
Full-time students: 3,294
Part-time students: 599

QUEEN'S
Kingston, Ont. (1841)
Full-time students: 16,522
Part-time students: 3,512

REGINA
Regina, Sask. (1974)
Full-time students: 7,778
Part-time students: 4,837

RYERSON
Toronto, Ont. (1948)
Full-time students: 13,567
Part-time students: 13,121

ST. FRANCIS XAVIER
Antigonish, N.S. (1853)
Full-time students: 4,215
Part-time students: 721

SAINT MARY'S
Halifax, N.S. (1802)
Full-time students: 6,346
Part-time students: 2,134

ST. THOMAS
Fredericton, N.B. (1910)
Full-time students: 2,888
Part-time students: 294

SASKATCHEWAN
Saskatoon, Sask. (1907)
Full-time students: 15,397
Part-time students: 3,469

SHERBROOKE
Sherbrooke, Que. (1954)
Full-time students: 11,410
Part-time students: 7,477

SIMON FRASER
Burnaby, B.C. (1963)
Full-time students: 12,470
Part-time students: 9,376

TORONTO
Toronto, Ont. (1827)
Full-time students: 56,979
Part-time students: 11,353

TRENT
Peterborough, Ont. (1963)
Full-time students: 6,038
Part-time students: 1,310

VICTORIA
Victoria, B.C. (1963)
Full-time students: 12,298
Part-time students: 6,117

WATERLOO
Waterloo, Ont. (1957)
Full-time students: 22,224
Part-time students: 2,673

WESTERN ONTARIO
London, Ont. (1878)
Full-time students: 27,622
Part-time students: 4,644

WILFRID LAURIER
Waterloo, Ont. (1911)
Full-time students: 10,097
Part-time students: 2,199

WINDSOR
Windsor, Ont. (1857)
Full-time students: 12,775
Part-time students: 3,491

WINNIPEG
Winnipeg, Man. (1871)
Full-time students: 4,050
Part-time students: 4,854

YORK
Toronto, Ont. (1959)
Full-time students: 38,086
Part-time students: 8,708

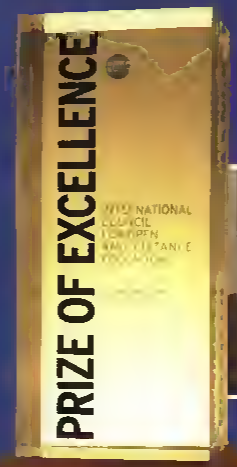
COURTESY OF LAKEHEAD UNIVERSITY

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Canada's Open University
Quality Learning. Anytime. Anywhere.

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96%

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* Source: AU 2003 Report on Student Satisfaction with Academic Services



THE BOTTOM LINE

For Canadian students and their parents, the key question remains: what does it *really* cost to go to university? Well, that depends on where you want to study. Since 1990, average tuition fees for the typical undergraduate have risen 111 per cent, in constant dollars. But the cost varies enormously across the country. Fees are highest in Nova Scotia, but British Columbia has been busy playing catch-up: since the province lifted its six-year freeze in 2002, universities have raised fees for the typical undergrad, on average, by 74 per cent. Newfoundland, on the other hand, has headed in the opposite direction, decreasing fees by almost 32 per cent since 1999-2000. Ditto for Manitoba: the province gave students a 10-per-cent rebate on their 1999-2000 tuition, and has frozen fees at that rate ever since. This year, Ontario followed suit: having boosted fees by a whopping 120 per cent since 1990, the province implemented a two-year tuition freeze.

Montréal is the least expensive—as long as you are a Quebec resident

And then there's Quebec, where tuition fees have been frozen since 1994. Students at Quebec universities pay a pittance compared to their peers—as long as they are residents of the province. And thanks to a series of international agreements with a wide variety of countries, students from such countries as Israel, Germany, Mexico and Peru are eligible to get the same deal. No such luck for students from elsewhere in Canada. for them, tuition continues to rise.

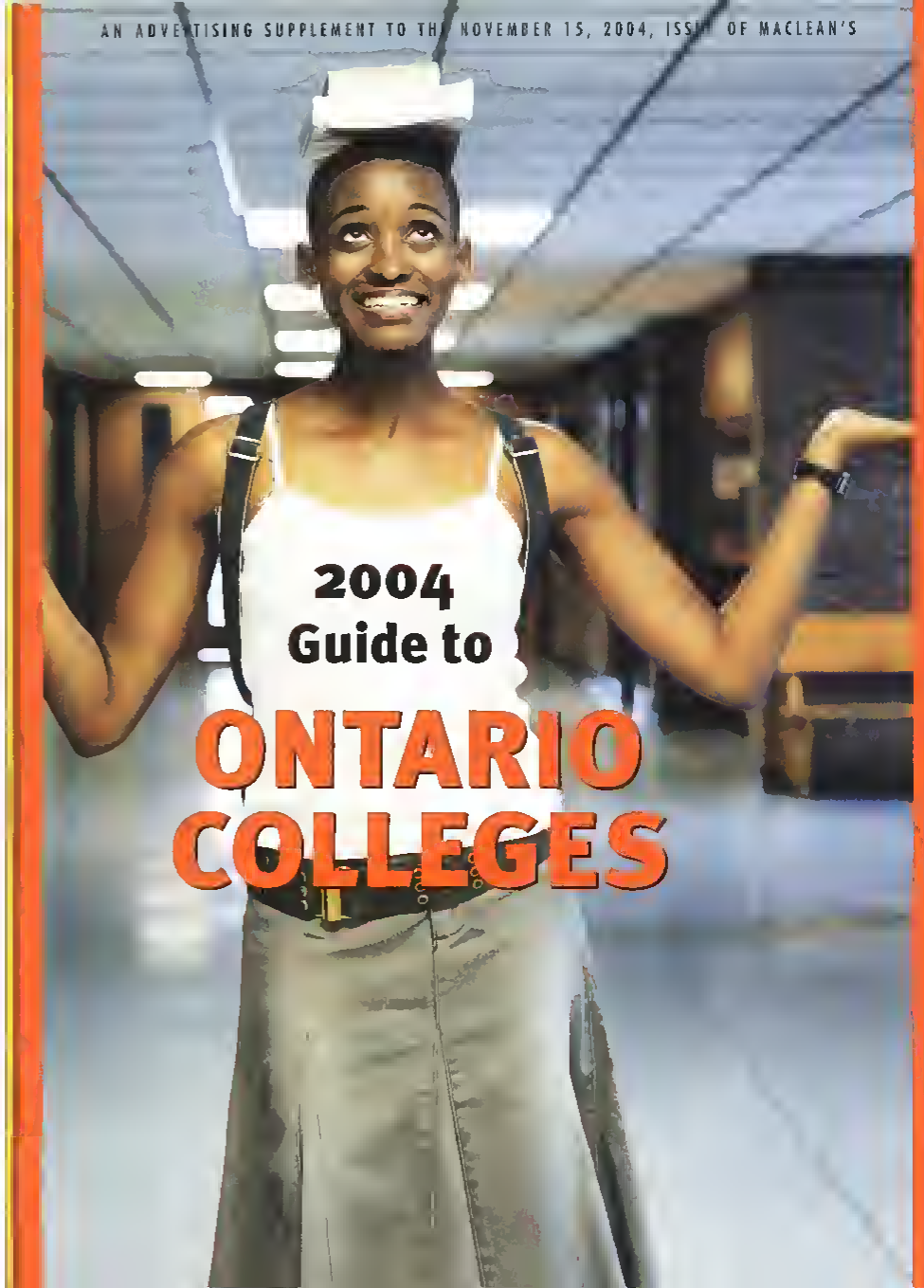
Given the enormous range of fees, *Maclean's* has ranked the universities with a student's pocketbook in mind. All fees are for undergraduate arts and science programs as of September 2004. The names of several universities appear twice: Quebec institutions where out-of-province fees apply, and universities where there are different fees for arts programs and science programs.

UNIVERSITY	TUITION	COMPULSORY ANCILLARY FEES†	TOTAL
Montréal (Quebec students)	$1,668	$392	$2,060
Sherbrooke (Quebec students)	1,668	431	2,099
Laval (Quebec students)	1,668	433	2,101
Bishop's (Quebec students)	1,668	874	2,542
Concordia (Quebec students)	1,668	976	2,644
McGill (Quebec students)	1,668	1,203	2,871
Brandon (Arts)	2,730	244	2,974
Memorial	2,550	442	2,992
Winnipeg (Arts)	2,786	344	3,130
Brandon (Science)	2,965	244	3,209
Winnipeg (Science)	3,210	344	3,554
Manitoba	3,255	337	3,592
St. Thomas	3,915	125	4,040
Laurentian	4,184	337	4,521
Montréal (out-of-province students)	4,173	392	4,565
Ottawa	4,163	426	4,589
UBC	4,011	584	4,595
Waterloo	4,194	437	4,631
UNBC	4,030	616	4,646
Lakehead	4,140	508	4,648
Carleton	4,152	520	4,672
Ryerson (Arts)	4,184	496	4,680
Wilfrid Laurier	4,184	534	4,718
Brock	4,184	557	4,741
*Nipissing	3,950	793	4,743
*Windsor	4,084	659	4,743
*UPEI	4,350	407	4,757
*Ryerson (Science)	4,261	496	4,757
*Simon Fraser	4,269	488	4,757
Moncton	4,365	419	4,784
Saskatchewan (Arts)	4,380	423	4,803
McMaster	4,133	682	4,815
Queen's	4,193	636	4,829
Sherbrooke (out-of-province students)	4,401	431	4,832
Laval (out-of province students)	4,401	433	4,834
Victoria	4,239	602	4,841
Trent	4,184	699	4,883
Lethbridge	4,000	915	4,915
Toronto	4,185	769	4,954
Western	4,140	846	4,986
York	4,184	804	4,988
Regina (Arts)	4,496	502	4,998
Alberta	4,537	496	5,033
Guelph	4,184	865	5,049
New Brunswick	4,770	321	5,091
Calgary	4,590	537	5,127
Regina (Science)	4,689	502	5,191
Bishop's (out of province students)	4,401	874	5,275
Saskatchewan (Science)	4,950	423	5,373
Concordia (out-of-province students)	4,401	976	5,377
Cape Breton (UCCB) (Arts)	5,260	262	5,522
Saint Mary's (Arts)	5,170	366	5,536
McGill (out-of-province students)	4,401	1,203	5,604
Saint Mary's (Science)	5,270	366	5,636
Mount Saint Vincent (Arts)	5,140	614	5,754
Cape Breton (UCCB) (Science)	5,560	262	5,822
Mount Allison	5,810	191	6,001
Mount Saint Vincent (Science)	5,425	614	6,039
Dalhousie (Arts)	5,610	511	6,121
St. Francis Xavier	5,750	573	6,323
Dalhousie (Science)	6,360	511	6,871
Acadia	7,468	356	7,824

†Compulsory ancillary fees include student health-plan fees. Students can opt out of most health plans, which range in cost from $34 to $366.05, if they are covered by another insurance plan.
*Indicates a tie

COURTESY OF UNIVERSITÉ DE MONTRÉAL

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S



AN ADVERTISING SUPPLEMENT TO THE NOVEMRER 15, 2004, ISSUE OF MACLEAN'S

Ontario College Graduates–Leaders for tomorrow

More than a million of the province's success stories are Ontario College graduates. They are leaders, decision-makers, designers, builders, health-care workers, scientists, technologists, software developers, media personalities and CEOs. These are the professionals who drive the province's social and economic success and touch all our lives for the better every day.

HIGH-QUALITY, FLEXIBLE PROGRAMS
Ontario's publicly-funded colleges offer the highest-quality programs targeted to the highest-demand professions. Flexible and current, they are designed to keep up with the demands of the changing marketplace.

ACCESSIBLE APPLIED EDUCATION
Ontario's colleges deliver high-quality applied education to a remarkably diverse student body. Recent high school graduates, mature learners, employees looking for higher credentials and better jobs, new immigrants and persons with disabilities all benefit from the college system. No matter who you are or where you're from, Ontario's colleges offer unparalleled opportunities for success.

RESPONSIVE AND RELEVANT
College programs provide students with both a theoretical base and practical, hands-on learning. Partnering with leading business and industry across the province ensures that students receive high-quality, industry-relevant education that meets the demands of today's employers.

EMPLOYERS' TRAINERS OF CHOICE
Employers consistently rate their satisfaction with college-provided training at 90 per cent or more.

ONTARIO COLLEGE GRADS ARE IN DEMAND
The proof is in the numbers. 87 per cent of 2003 college graduates were employed within six months of graduation. College grads also get high marks from employers.

GLOBAL IMPACT
Ontario's colleges have gained an international reputation for excellence in education, doing business in more than 80 countries and territories around the world.

UNIQUE INNOVATIONS AT ONTARIO'S COLLEGES
- Market-responsive programs that are attuned to business and industry and meet high academic standards
- Dynamic learning environments supported by industry standard technology
- Internationally recognized skills training
- Experienced faculty connected to the real world of work
- Thousands of career choices
- High graduate employment rates, many programs reaching 100 per cent within six months of graduation



Ontario Colleges: Facts at a Glance

PROGRAMS
- Nearly 600 post-secondary programs in health sciences, business, arts, skilled trades, engineering and community services
- Programs lead to a variety of credentials in one- to four-year programs (certificates, diplomas, post-diploma certificates, applied bachelor degrees and joint diploma-degrees)
- Literacy and basic skills training programs
- Colleges provide 90 per cent of apprenticeship training in Ontario
- Customized training to more than 1,000 major Ontario employers each year

STUDENTS
- Average age of high school applicants 18
- Average age of adult learners 24
- 40 per cent of college students come directly from high school, 60 per cent come from the labor market
- Total full-time post-secondary enrolment 155,000; part-time enrolment 350,000

PROGRAM COSTS
Average basic annual tuition for college programs:
- Certificate $1,900
- Diploma $1,900
- Post-diploma program $3,300
- Degree $4,100
- Joint college-university program, $4,100

OUTCOMES
- Ontario's colleges educate more than half a million people every year
- More than one million alumni
- 45,000 new college grads each year
- 87 per cent of graduates were employed within six months of graduation
- 92 per cent of employers said they were satisfied or very satisfied with the graduates they hired
- At an economic impact of $11 billion a year, the College system adds significant value to the country's most prosperous province

Find out more: www.ontariocolleges.ca

ONTARIO COLLEGES: REAL CAREERS FOR REAL LIFE

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Algonquin College

A LEADER IN STUDENT SATISFACTION

Algonquin College is located in the National Capital Region and the Ottawa Valley. With the National Capital Region expected to experience substantial growth in the foreseeable future, Algonquin is undergoing continuous expansion and transition. Committed to staying abreast of today's swiftly changing workforce needs, Algonquin leads the province in the integration of technology into the post-secondary learning landscape.

Guided by its 2003 to 2008 Strategic Plan, Algonquin's directions are supported by four pillars: quality, service, technology and financial stability.

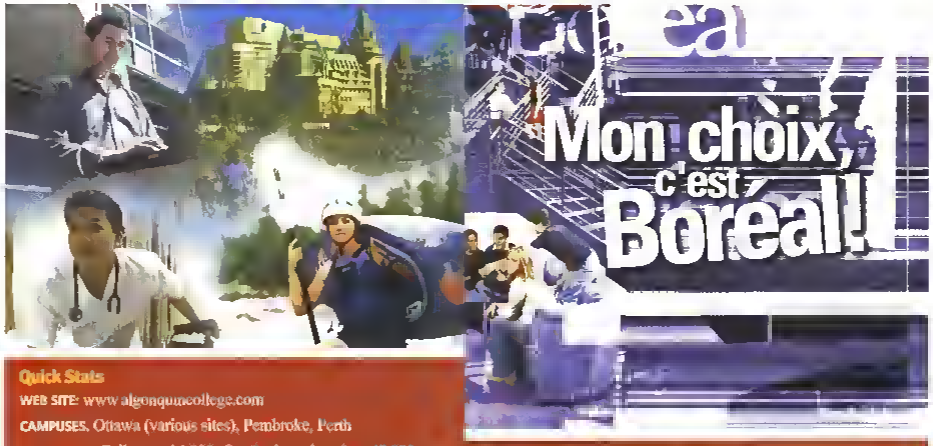
Quality: Algonquin consistently provides high-quality, relevant programs and services. Responding to community demands, Algonquin continuously refines its programs to ensure a flow of qualified graduates to critical sectors of the economy. Algonquin is proud that, in the past six years, five different Algonquin alumni have received Ontario Premier's Awards for their outstanding career success and their social and economic contributions. In addition to its established diploma and certificate programs, the College now offers four-year, market-driven bachelor's degrees that combine theory and analytical skills with intensive co-op opportunities. Algonquin offers collaborative degrees with local universities and has 59 articulation agreements with national and international universities.

Service: Algonquin defines service as its commitment to student success. For the second year in a row, Algonquin ranks No. 1 in student satisfaction in the Ontario college system, reflecting Algonquin's dedication to client service. Responding to community needs, Algonquin recently piloted an innovative project to upgrade the skills of internationally educated nurses to help meet the pressing need for qualified nurses in Canada.

Technology: Algonquin has embraced the innovative use of technology to enhance its programs and has transformed its campuses into the most connected in the province. Wireless Internet connectivity is just one example of the use of technology as an integral part of campus life at Algonquin. Technology also stands central in applied research efforts in fields as diverse as high-definition cinema, telehealth and haptics – or computer-touch technology. Algonquin also opened a new Transportation Technology Centre, responding to the significant skills shortage in that industry. Because of its leadership in technology and its outstanding international reputation, Algonquin was chosen by a leading institute of technology in Faridabad, India, to offer technology programs.

Financial Stability: Algonquin strives to improve and secure its financial position. Algonquin has invested in several strategic partnerships that, in turn, provide students with high-quality equipment and services, reinforcing that at Algonquin, students are "No. 1."

ALGONQUIN COLLEGE



Quick Stats

WEB SITE: www.algonquincollege.com

CAMPUSES: Ottawa (various sites), Pembroke, Perth

ENROLMENT: Full time: 14,000; Continuing education: 47,000 registrations

FACULTY: Full time, 484

TUITION: Standard: from $2,358; International: from $10,276

CONTACT INFO: Toll free: 1-800-565-4723; Ottawa: 613-727-0002, TTY: 613-727-7766, Fax: 613-727-7632; Pembroke: 613-735-4700, ext. 2708, TTY: 613-735-4744, Fax: 613-735-8800, Perth: 613-267-2859, ext. 5604, Fax: 613-267-3950
Email: registrar@algonquincollege.com

ON-CAMPUS HOUSING: 1,050 beds

FINANCIAL AID: $5.3 million

MOST POPULAR PROGRAMS: Broadcasting – Television; Business Administration, Business – Marketing; Child and Youth Worker; Dental Hygiene; Early Childhood Education; Paramedic; Police Foundations; Social Service Worker; Veterinary Technician

DEGREE PROGRAMS: Bachelor Degrees in Applied Studies: Bachelor of Applied Arts – Interior Design; Bachelor of Applied Business – E-Business Supply Chain Management; Bachelor of Applied Technology-Photonics; Collaborative Degrees: Bachelor of Journalism with the University of Ottawa; Bachelor of Science in Nursing with the University of Ottawa; Bachelor of Information Technology – Interactive Multimedia and Design with Carleton University; Bachelor of Information Technology – Network Technology with Carleton University

CO-OP EDUCATION: 12 programs

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Athabasca University, University of Calgary; Carleton University; College of the Rockies, University of Guelph; Lakehead University; University of Lethbridge; McMaster University; University of New Brunswick, Nipissing University, Okanagan University College; University of Ottawa; Royal Roads University, Ryerson Polytechnic University, Technical and Further Education (TAFE), New South Wales, Australia, University College of Cape Breton; University College of the Cariboo; University of Western Ontario; University of Western Sydney, Australia

Collège Boréal

LEARNERS .. OUR RAISON D'ÊTRE!

Renowned for its innovative teaching methods and learner support services, Collège Boréal offers French-language post-secondary and career-training programs in a wide variety of areas. With its seven campuses spread over northern and central-southwestern Ontario, it serves a territory covering two-thirds of the province.

Collège Boréal is a leader in several areas, such as online learning, distance training, multi-campus approach, quality assurance and the use of advanced technologies. The competence of its personnel, its innovative capabilities and its audacity make it a key partner at the economic, cultural and social levels in Ontario, elsewhere in Canada and abroad.

Learners are Boréal's raison d'être. Since the College is committed to promoting their academic success and their personal development, students have the advantage of small classes, enabling professors to pay closer attention to their needs. Recent survey results on the satisfaction of various groups and the retention rates indicate clearly that this produces extraordinary results.

To facilitate its graduates' access to the job market, Collège Boréal has developed the Job Guaranteed initiative, offering unsurpassed support after graduation. As part of this unique initiative, Collège Boréal makes the following commitment to the students of eight of its programs: "Should a graduate not find a job within sixteen months after graduation or the job prove unsatisfactory, for any reason whatsoever, he or she will be able to register in a second program, without having to pay tuition fees."

Also, preparing learners to work in both official languages gives them an edge when seeking employment. In an increasingly competitive world, being able to work in several languages is a significant asset, if not a requirement. Being keenly aware of the market demand, well trained in information technology and bilingual, Collège Boréal's graduates are sought after throughout the region, the province and beyond.

Take a close look at Collège Boréal, get to know its programs and services, visit the Web site and talk to the learners. We are convinced that you will feel welcomed and that there is a place for you at Collège Boréal.

Quick Stats

WEB SITE: www.boreale.on.ca

CAMPUSES: Seven locations: Sudbury (main campus), Hearst, Kapuskasing, Timmins, New Liskeard, Nipissing, Toronto

ENROLMENT: Full time: 1,500, Part time: 4,000

FACULTY: Full time: 315

TUITION: From $2,332, including ancillary fees

CONTACT INFO: 1-800-361-6673, clmalette@boreale.on.ca

ON-CAMPUS HOUSING: New residence, Sudbury campus 2005

FINANCIAL AID: $300,000

COMPUTER ACCESS: Collège Boréal is one of the leaders in integrating the portable computer in college education. The 50 or so programs offered at Collège Boréal rely on advanced technologies, be it the specialized laboratories, our communication and video-conferencing networks or the rest of our modern equipment. Our internal communication network connects the College's seven campuses to the rest of the world via e-mail and multimedia.

MOST POPULAR PROGRAMS: Health Sciences

CO-OP EDUCATION: Funeral Services. Most programs have a field placement in the last year.

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Transfer agreements: Athabasca University, Université Laurentienne, University of Sudbury; Collaborative programs, Nursing

Collège Boréal

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Cambrian College

EDUCATING FOR GLOBAL OPPORTUNITIES

For nearly four decades, Cambrian has been a leader, innovator and partner in educating for global opportunities. Known for academic excellence, innovative thinking and progressive approaches and directions, Cambrian is a great place to live and learn, to become career ready and to set the stage for future personal and professional success.

"Our focus," says Cambrian President Sylvia Barnard, "is to provide our graduates with an educational base – a foundation for career development and success in the global marketplace.

"The Cambrian experience is one that encompasses both the academic and social aspects of life – that combines theory with practical exposure on modern equipment, and that links to business, industry and the economic development of our country. It's an experience designed to broaden the student's perspective, to challenge his/her ability, and to encourage and support academic and personal achievement."

Situated in the heart of one of Sudbury's major entertainment and shopping areas, Cambrian's main campus on Barrydowne Road is the hub of the College's operations. This teaching, learning and research environment provides Cambrian students with access to some of the most sophisticated programming in the skilled trades and in the information technology, health-care, electrical and electronic fields in Ontario. As well, it houses the College's applied research components and eDome – a high-tech, multimedia facility that provides global access to Cambrian's programming.

Cambrian students can choose from about 100 full-time programs and more than 800 part-time continuing education programs, courses, seminars, customized training packages and distance education opportunities. A number of these programs and courses are delivered through teleconferencing, independent study and the Internet.

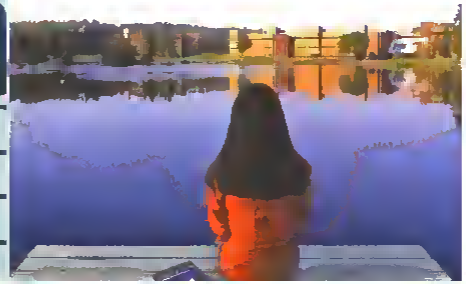
"We are educating for global opportunities," continues Barnard. "Our programming, our strategic directions, our innovations and our partnerships with industries, governments and educational institutes around the world support that and, at the same time, ensure graduates who can work and succeed in a dynamic, diverse and ever-changing world."

Cambrian proudly boasts and nurtures a student-centred environment. Through a comprehensive student services area, services and programs are available that support student success. Through an active and respected student government, students have the opportunity to be involved in both the social and operational dimensions of college life. Cambrian's commitment is also evidenced by its focus on the advancement of Native education and by its status as a leader in meeting the needs of persons facing a variety of learning challenges.

For nearly 40 years, Cambrian has been preparing students for the changing economy and has been developing partnerships that ensure students have every academic and employment advantage.

CAMBRIAN COLLEGE





AN ENVIRONMENT FOR LEARNING

Quick Stats

WEB SITE: www.cambrianc.on.ca

CAMPUSES: 1400 Barrydowne Road, Sudbury, P3A 3V8, 705-566-8101, Ontario toll free 1-800-461-7145, Satellite Campuses: Espanola and Little Current

ENROLMENT: Full time: 4,300+; Part time, 9,000+; International: 244

FACULTY: Full time: 204

TUITION: Diploma programs: $2,419, including ancillary fees. Certificates, $605 to $2,873. International students: $9,662

CONTACT INFO: Brenda Bouchard, Manager, Liaison, 705-524-7303, Ontario toll free 1-800-461-7145, ext. 7597. info@cambrianc.on.ca

ON-CAMPUS HOUSING: 500 beds; Rae Ann Yimen, 705-566-8101, ext. 7209. raylinen@cambrianc.on.ca

FINANCIAL AID: $1.3 million

COMPUTER ACCESS: 198 open-access computers

MOST POPULAR PROGRAMS: Accounting; Civil Engineering Technology; Dental Hygiene; Graphic Design, Industrial Mechanical Millwright; Instrumentation Engineering Technology, Medical Radiation Technology, Nursing; Power Engineering; Pre-Service Firefighter Education and Training; Social Service Worker

CO-OP EDUCATION: Software Engineering Technology; Physical Fitness and Leisure Management

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Universities across Canada, Lake Superior State University, Sault Ste. Marie, Michigan, Northwood University, Midland, Michigan; University of Western Sydney, Australia, Michigan Technological University, Houghton, Michigan

Canadore College

AN ENVIRONMENT FOR LEARNING

Here in the beautiful city of North Bay, just 180 minutes north of Toronto, you'll discover three easily accessible campuses - the Aviation Campus, Commerce Court and the Education Centre - which is situated on a stunning 720-acre wooded escarpment overlooking the city.

Canadore offers more than 75 full-time, post-secondary programs in the areas of Aviation, Business, Health and Community Services, Hospitality/Tourism, Information and Communication Technologies, Preparatory and Skilled Trades. Students studying in any of our Business programs can choose to earn while they learn by choosing co-op. As well, many of Canadore's programs incorporate practical work experience.

Each year, 3,000 students enjoy the Canadore experience - small class sizes, personalized learning and direct access to exceptional faculty and support services, including an Aboriginal Learning Unit and a strong special needs department. Every student has access to career counselling, and our graduates get jobs.

Canadore students also have a unique opportunity to turn their college diploma into a university degree. Canadore shares a campus with Nipissing University and the two schools have an agreement that provides degree completion opportunities for all diploma graduates.

We're also continuously expanding to meet your needs! This September, Canadore opened a new apartment-style student residence, to complement our existing townhouse-style residences.

At Canadore, you'll discover an exhilarating environment packed with activities and social events that will round out your education and make your college years more exciting and memorable. Participate in frosh week, where new students are introduced to college life and to each other in an action-packed orientation week, and visit the Wall Student Pub, a great place to relax and unwind with friends.

Canadore students are also encouraged to participate in more than 40 different athletic and recreation programs - everything from intramural sports to whitewater rafting, snowboarding and horseback riding. Panther club and varsity sports include fastball, volleyball, soccer, hockey and basketball.

Take advantage of all that Canadore College has to offer - contact us for more information about programs, services and student life, or to arrange a tour!

Be sure to visit our web site, www.canadorec.on.ca. Click on "Ask Canadore" for an immediate response to your question!

Quick Stats

WEB SITE: www.canadorec.on.ca

CAMPUSES: Canadore has three campuses in North Bay and continuing education campuses in Sturgeon Falls and Parry Sound.

ENROLMENT: Full time: 3,000; Part time, 1,500, per semester

FACULTY: Full time: 204

TUITION: $2,420 (may vary by program, some programs may require you to purchase specialized equipment or supplies)

CONTACT INFO: Liaison Office, 705-474-7600, ext. 5460; Registrar's Office: 705-474-7600, ext. 5123. Visit www.canadorec.on.ca and click on "Ask Canadore" for immediate answers to your questions.

ON-CAMPUS HOUSING: In September 2004, a new 146-bed apartment-style residence opened, complementing our townhouse-style residences, which house 350 students.

FINANCIAL AID: More than $750,000 each year

COMPUTER ACCESS: Computer labs are located throughout the college and access is available in residence.

MOST POPULAR PROGRAMS: Programs in our key academic sectors: Aviation, Health and Community Services, Hospitality/Tourism; Information and Communication Technologies

CO-OP EDUCATION: Students studying in any of Canadore's Business programs can choose to earn while they learn by choosing co-op. As well, many of Canadore's programs incorporate practical work experience.

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Canadore has an agreement with Nipissing University, providing diploma-program graduates degree-completion opportunities. Articulation arrangements exist with universities/colleges across Canada and the United States. With Nipissing, Canadore offers a Bachelor of Science in Nursing. Canadore co-operatively offers a Bachelor of Arts, Criminal Justice, to graduates of our Correctional Worker and Police Foundations programs.

canadore college

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Centennial College

WHERE THE WORLD COMES TO LEARN

With the opening of the Centennial HP Science and Technology Centre, Ontario's first college has vaulted to the forefront of a new learning experience. Every corner of the building's interior streets and town square functions as effective study space, thanks to the wireless technology that keeps students' laptops linked to a powerful academic network.

The spectacular campus, located at the University of Toronto at Scarborough (UTSC), is home to Centennial's renowned health sciences school, as well as innovative programs in business and engineering technology. This relationship with Canada's pre-eminent university has resulted in five new joint-degree programs in Journalism: New Media, Paramedicine, Industrial Microbiology and Environmental Science. Students graduate with both a University of Toronto degree and a Centennial diploma or certificate.

Centennial's own four-year degree programs in computer networks, software design and integrated accounting combine theoretical and applied learning with paid co-op opportunities. In fact, all of Centennial's programs emphasize practical experience with laboratory learning, agency placements or co-op education. Our programs are career-focused and regularly reviewed by more than 800 industry professionals.

And there's much more. Our Centre for Creative Communications is recognized as one of the best multimedia schools in Canada, and we are home to the nation's largest transportation technology training centre. There's a dynamic living and learning environment at our residence, and our award-winning Student Centre brings an exciting dimension to campus life.

Centennial is a college of opportunity, making education accessible to all. Our college and university transfer programs, English as a Second Language courses, and corporate training and continuing education programs serve thousands every year.

Centennial enjoys a richly diverse student population that adds to the exciting cosmopolitan learning experience. Truly, the world comes here to learn.

CENTENNIAL COLLEGE



BEN RAHN/A FRAME 2004

Quick Stats

WEB SITE: www.centennialcollege.ca

CAMPUSES: Four

ENROLMENT: 12,000; Part time: 35,000

FACULTY: Full time, 432; Part time: 1,200

TUITION: Most programs: $2,593; International, $10,525 (both including incidental fees)

CONTACT INFO: Main phone number: 416-289-5000; Admissions inquiries: 416-289-5325, Continuing education, 416-289-5207, International education: 416-289-5393, success@centennialcollege.ca

ON-CAMPUS HOUSING: 380 beds at Progress Campus

FINANCIAL AID: Approximately $3 million

COMPUTER ACCESS: 1,900 free-access computers

MOST POPULAR PROGRAMS: Aircraft Maintenance; Automation and Robotic Technology; Automotive Technology; Aviation Technician; Bio-Technology, Business Administration; Digital Animation; Early Childhood Education; Environmental Protection Technology, General Arts and Science; Human Resources Management; Massage Therapy, Mechanical Engineering Technology; Nursing (B.Sc.N.), Paramedic; Police Foundations, Practical Nursing; Social Service Worker

DEGREE PROGRAMS: Computer and Communication Networking, Integrated Accounting and Information Technology Management; Software Systems, Design, Development and Management; Nursing (B.Sc.N.), Environmental Science and Technology;Industrial Microbiology; Journalism; New Media; Paramedicine

CO-OP EDUCATION: 19 programs; 500 placements at 190 companies

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: 105; popular ones include the University of Toronto at Scarborough, Ryerson University; York University; Athabasca University, The Michener Institute, Royal Roads University; University of Guelph, University of Calgary

Conestoga College
Institute of Technology and Advanced Learning

CONNECT LIFE AND LEARNING

At Conestoga, you connect life and learning, gaining skills and experience at one of Canada's premier polytechnic institutes. Conestoga is in one of the nation's fastest-growing regions. Canada's Technology Triangle is home to many businesses and industries with global reputations for innovation and excellence.

Our faculty has real-world experience and expertise. Their main concern is your learning and your success. You also work with student colleagues, honing your skills individually and as teams through real world situations and projects.

Our partners in business and industry work closely with Conestoga, helping us develop programs relevant in current and future careers.

For six straight years, Conestoga has ranked first overall among Ontario's colleges on the province-wide Key Performance Indicator (KPI) surveys, which measure graduate employment and satisfaction levels, as well as employer and student satisfaction.

Conestoga annually graduates more than 3,000 new professionals in Engineering Technology, Information Technology, Business, Health Sciences, Community Services, Media/Communications Studies and the Skilled Trades.

We also have a variety of program options: full-time degree, diploma and certificate programs; part-time programs; post-graduate, apprenticeship and preparatory studies; online courses; part-time evening and weekend courses; and customized training for business and industry.

Conestoga is one of Ontario's largest providers of apprenticeship education and a major provider of career-related adult education courses.

Co-op education is on the rise. Twenty-three full-time programs now feature co-op, including every Conestoga degree program. To offer you even more options in the future, Conestoga has joined with a select group of Canadian polytechnic institutes in a new national organization that will result in more shared academic programs and advanced learning opportunities. Besides our own degree programs, we are partners in a number of university programs, including Nursing and Nurse Practitioner with McMaster University and Bachelor of Business Studies and MBA with Windsor. We also have a number of transfer arrangements in place with institutions in Ontario, Alberta, British Columbia, Michigan, New York, Hawaii and Australia.

Gain the greatest value for your education.
Connect life and learning. Choose Conestoga.

Quick Stats

WEB SITE: www.conestogac.on.ca

CAMPUSES: Doon (Kitchener), Waterloo, Guelph, Cambridge, Stratford

ENROLMENT: Full time: 6,000, Apprenticeship: 2,500; Part time, 43,000

FACULTY: Full time, 265; Part time/sessional: 550

TUITION: For 2004-05, standard tuition (including ancillary fees) starts at $2,622 for full-time diploma programs; $5,700 for degree programs, $10,000 for international students

CONTACT INFO: 519-748-5220, ext. 3656
geninfo@conestogac.on.ca

ON-CAMPUS HOUSING: Next to Doon Campus in Kitchener: 550 capacity

FINANCIAL AID: $2.3 million

MOST POPULAR PROGRAMS: Business Administration; Electrical/Electronics Engineering, Mechanical/Manufacturing Engineering; Nursing, Law Enforcement

DEGREE PROGRAMS: Bachelor of Technology programs in Advanced Manufacturing; Architecture Project Management; Telecommunications/Computers and Wood Products Manufacturing; Bachelor of Science in Nursing and post-graduate Nurse Practitioner (with McMaster University), Bachelor of Business Studies and Master of Business Administration (with the University of Windsor)

CO-OP EDUCATION: 23 programs in Business, Engineering Technology, Information Technology

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Program-specific agreements with universities in Ontario, Alberta, British Columbia, the United States and Australia, and with other Canadian polytechnic institutes

CONESTOGA
Connect Life and Learning

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Confederation College

LIVES CHANGE THROUGH LEARNING

We are committed to student success. Confederation College located in the cosmopolitan City of Thunder Bay on the rugged shores of Lake Superior - is an accessible, leading edge facility with world class resources. We are integral in connecting learners, Northwestern Ontario communities and the global workplace.

Located geographically in the middle of a northern wilderness playground the size of France, a quick 90-minute flight from Toronto - we have some of the best programs and education services you'll find anywhere in Canada. Choose from over 50 programs in business, human services, technology and health services.

We offer students a comprehensive mix of learner-centered education opportunities: classroom, on-line, distance education, co-operative work terms and field placement. We provide them with a facility and staff that are the top in their field and are committed to student success. And we can still offer something most colleges and universities no longer can - a small class size.

Confederation College faculty and staff ensure that our programs reflect the emergence of new technologies and that students graduate with relevant, contemporary and marketable skills.

The Aviation Centre of Excellence (located at the Thunder Bay International Airport) is Confederation College's $17 million state-of-the-art centre for aviation education.

The Forestry Centre provides highly acclaimed education, training and research programs tailored for Canada's forestry industry of the 21st century.

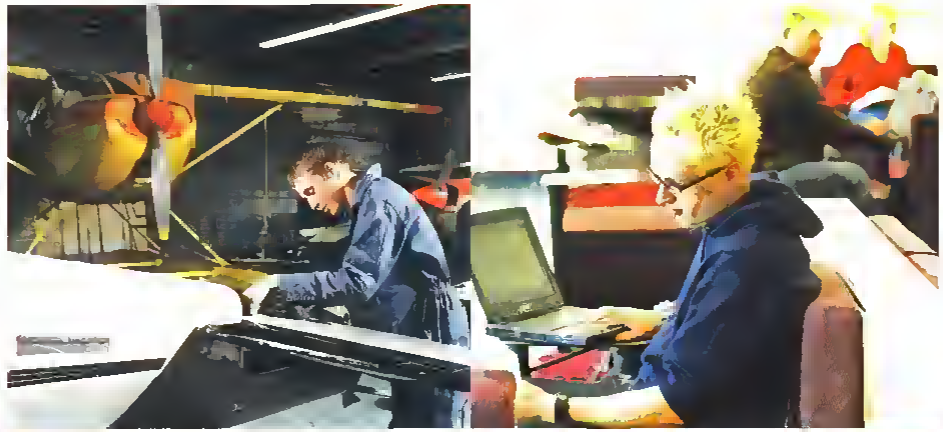
Unique to Confederation College is the college within and throughout a college, called Negahneewin College of Indigenous Studies, established to recognize the Aboriginal communities in Canada. Working together with Negahneewin College, Aboriginal perspectives are incorporated into Confederation's education and training. Negahneewin offers the only applied degree in Indigenous Leadership & Community Development in Ontario.

To reinforce Confederation College's commitment to student success we provide complete student services, academic advisement, on-campus employment, as well as financial aid information and assistance.

The Confederation College experience includes varsity sports, student government, a student newspaper, fitness facilities and various clubs and organizations.

We believe that "lives change through learning" and to that end we promise to all students that come to Confederation College... we will provide you the education experience to change your life through learning.

Confederation COLLEGE



Quick Stats

WEB SITE: www.confederationc.on.ca

CAMPUSES: Dryden, Fort Frances, Geraldton, Kenora, Marathon, Sioux Lookout, Thunder Bay (main campus). 145 outreach sites

ENROLMENT: Full-time: 4,000, Part-time: 8,000

FACULTY: 450 full/part-time

TUITION. $2,346 to $5,303 including ancillary fees

CONTACT INFO: All departments: (807) 475-6110
Toll free (Ontario & Manitoba): 1-800-465-5493
Admissions: (807) 475-6130

ON-CAMPUS HOUSING: Accommodation for 229 students

FINANCIAL AID: $3,500,000.00 endowment; over $250,000.00 in annual scholarships & bursaries

MOST POPULAR PROGRAMS: High demand programs spread throughout Confederation's over 50 programs in fields such as Aboriginal studies, aviation, business, computer sciences, hospitality, engineering technology, forestry, health sciences and human services and media arts.

CO-OP EDUCATION Most programs feature a co-op or alternative workplace experience component.

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Over 70 with provincial, national and international colleges and universities.

Durham College

A DURHAM DIPLOMA PUTS YOU IN DEMAND

Durham College has what it takes.

As the Greater Toronto Area's top student-rated college for six consecutive years, Durham College offers first-rate programs, inspiring professors, exemplary student services, superb recreational opportunities, fun social events and more.

You can choose from almost 100 job-focused programs in applied sciences, business, communication arts, design, emergency services, health, human studies, integrated studies, justice, skilled trades and technology. We offer a full range of computer-related educations with state-of-the-art labs (ranging from animation and graphics to programming). After graduation, you can further your credentials in one year or less by pursuing one of our graduate programs.

Durham College presents many unique advantages. Not only are 87.5 per cent of our students employed within six months of graduation, but every graduate is also backed by an employer guarantee - certifying that our alumni are prepared for the workforce.

Our Oshawa campus is also home to Ontario's newest university - the University of Ontario Institute of Technology (UOIT). You can earn a college diploma and a university degree at the same campus.

You'll also find a lot of excitement here. To keep pace with the demand for college programs, as well as growth at the new university, we've been building additional facilities, including a world-class, year-round tennis centre, a new residence with a dining hall, a championship regulation soccer field, and several new classrooms with desktop computers or connections for laptops.

In 2004, we opened our 6,794-square-metre (73,000-square-foot), four-storey library offering learning spaces, classrooms and research workstations. Students work in both wired and wireless environments, with comfortable study spaces and a reading room - complete with a fireplace!

A new arena offering state-of-the-art facilities is scheduled to open in 2005, including two ice rinks and seating for 800 spectators.

We're also continuing to invest significantly in information technology. Our spacious Learning Commons features 150 computers, as well as space for students to use their laptops.

The college's Skills Training Centre - also called the Whitby campus - recently underwent a major expansion. Additions include classrooms equipped for computer-based presentations, a 50-seat Learning Commons, a tiered lecture theatre, a plumbing mezzanine, a new student lounge and more.

Quick Stats

WEB SITE: www.durhamcollege.ca

CAMPUSES: Oshawa, Whitby (Skills Training Centre), Uxbridge, Ajax/Pickering, Port Hope, Port Perry and Beaverton

ENROLMENT: Full time: 6,000; Part time: 19,000

FACULTY: Full time: 280; Part time: 110

TUITION $2,424.58 for 2004-05, including ancillary fees

CONTACT INFO: 905-721-3033 or
https://myplace.durhamcollege.ca

ON-CAMPUS HOUSING. About 1,300 spaces; suites with kitchenette, private bathroom, telephone, cable and Internet

FINANCIAL AID: $2 million for scholarships and bursaries

ADMISSIONS: https://myplace.durhamcollege.ca

MOST POPULAR PROGRAMS: 911 and Emergency Response, Dental Hygiene; Firefighter - Pre-Service, Education and Training; Nursing - Collaborative B.Sc.N. (UOIT/Durham), Paramedic, Police Foundations

DEGREE PROGRAMS (IF APPLICABLE): Bridging programs with UOIT

CO-OP EDUCATION Check individual curriculum

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Transfer agreements/bridging programs with UOIT; for others visit www.durhamcollege.ca

DURHAM COLLEGE

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Fanshawe College

HOT!

Fanshawe College, with its largest campus in the tree-lined city of London, has become one of the most popular colleges in Ontario, not only due to its location, but also because Fanshawe has continued to offer a wide variety of quality programs taught by outstanding staff. Housed in modern, up-to-date facilities, more than 120 career programs (certificate, diploma and graduate), as well as four degree programs, are offered. Adult training, apprenticeship, continuing education and corporate training are equally important to the College's academic mission, which is built on a foundation and philosophy of student success.

The city of London is a selection feature, both to youth and adults who appreciate the safe, clean environment, on-campus and nearby student housing, arts, entertainment and sporting events, as well as countless retail stores and restaurants. London is also just two hours away from downtown Toronto, and is on a major travel corridor, including quick travel to the United States border.

Like the London campus, Fanshawe's three other major campuses are located in beautiful towns and cities in the heart of southwestern Ontario - Simcoe, St. Thomas and Woodstock. Each campus offers programming tailored to the needs of its community and delivered by excellent staff who thrives on helping students to succeed.

The full-time post-secondary student population at Fanshawe College has soared in the past five years, to almost 14,000 annually. The doors have opened to many new facilities that are rated second to none, including an amazing new student centre in London.

While the College attracts the majority of its students from Ontario, it is also enriched by students from around the world and other parts of Canada. An international students office, computer, homework labs, adaptability services, on-site health services, including a sports medicine clinic, a fitness centre, hair salon, retail stores and multiple food outlets, are just a few of the many student services available at Fanshawe.

More than a third of Fanshawe's career programs are offered in the co-op mode, combining in-class with on the job paid employment, and many other programs offer internships, field placements, clinical placement and other real-world, hands-on experiences.

Students can choose from one of our four bachelor's degree programs, two collaborative programs with Fanshawe's neighbour, the University of Western Ontario, and two Fanshawe degree programs in applied learning: Integrated Land Planning Technologies and Biotechnology, which is set to begin in 2005.





Quick Stats

WEB SITE: www.fanshawec.ca

CAMPUSES: London, St. Thomas, Woodstock and Simcoe, with centres in Tillsonburg and Strathroy

ENROLMENT: Full time: 14,000; Part time: 40,000

FACULTY: Approximately 400 full time

TUITION: Two semesters: $2,460

CONTACT INFO: Registrar/Admissions: 519-452-4277; Financial aid: 519-452-4280; Partnerships/Awards/Scholarships: 519-452-4466

ON-CAMPUS HOUSING: 792 beds housed in two on-campus, apartment-style residences

FINANCIAL AID: Approximately $3 million

COMPUTER ACCESS: Approximately 3,000 student-use computers at all Fanshawe locations, plus many wireless locations for laptop use

MOST POPULAR PROGRAMS: Broadcasting, Building Technology; Child and Youth Worker; Dental Hygiene, Design (various); Early Childhood Education, Marketing; Medical Radiation; Music Industry Arts, Nursing, Paramedic, Police Foundations; Recreation and Leadership; Respiratory; Social Service Worker; Tourism and Travel, and many more

CO-OP EDUCATION: Approximately one-third of the 120 career programs offer a co-op component - more than any other college in Canada

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Fanshawe graduates may apply their credits toward a degree at a large number of universities in Canada, the United States or Australia. Collaborative degree programs are available in Nursing, and Media Theory and Production. Two bachelor's degrees are available in applied learning: Integrated Land Planning Technologies (2004) and Biotechnology (2005)

FANSHAWE COLLEGE

Fleming College

EXPERIENCE SUCCESS

At Fleming College, the combination of experience and success enables students to chart the best path for the future. With more than 90 full-time programs, we provide hands-on learning, leading-edge resources, caring faculty and staff, and excellent job connections. Short and simple - at Fleming College, students experience a learning environment like no other.

Our main campuses in Peterborough and Lindsay are located in Central Ontario's Kawartha Lakes region, in safe, welcoming communities. Just 130 kilometres northeast of Toronto, Fleming students have the advantage of being close to a major urban centre while enjoying relaxed and affordable living in an area alive with outdoor adventure.

At our campus in Peterborough, the new Peterborough Sport and Wellness Centre opens in spring 2005. Built in partnership with the City of Peterborough, the facility features a triple gymnasium, and a pool and fitness centre. In Lindsay, home to the college's School of Environmental and Natural Resource Sciences, new campus expansion demonstrates green technology with an interconnected living laboratory, interior discovery trails linked to the Trans Canada Trail, a green roof, and a constructed wetland. The Centre for Alternative Wastewater Treatment and the Geomatics Institute at Fleming are also located here. In Haliburton, home to the Haliburton School of The Arts, the stunning new campus overlooks Head Lake and features architecture of natural wood, glass and stone to complement the natural surroundings.

Fleming College is continually developing new programs to enhance students' employment opportunities, such as our Bachelor of Applied Technology, Environmental Assessment and Management, Fire Systems Engineering Technician/Technology, Health Information Management and Urban Forestry programs. Also planned are a new Forensic Biotechnology diploma and a one-year General Arts and Science University Transfer program.

Experience and success are the driving forces behind a Fleming education. Our graduates demonstrate how their Fleming College experience provided the path to their success. In the graduate survey KPI report issued in 2004, Fleming College ranked second overall in the province for graduate satisfaction. An impressive 97 per cent of graduates said they would recommend Fleming College to prospective students.

Quick Stats

WEB SITE: www.flemingcollege.com

CAMPUSES: Peterborough, Lindsay, Cobourg and Haliburton

ENROLMENT: Full time: 5,570; Part time: 14,750

FACULTY: Full time: 216; Part time: 397

TUITION: $2,468.50, including ancillary fees, for most programs

CONTACT INFO: 1-866-353-6464, Liaison Offices Peterborough: 705-749-5546, Lindsay: 705-878-9301, info@flemingc.on.ca

ON-CAMPUS HOUSING: 667 beds. Peterborough and Lindsay residences offer furnished, networked suites with individual bedrooms

FINANCIAL AID: In excess of $2 million available in bursaries, scholarships and awards

MOST POPULAR PROGRAMS: Fish and Wildlife Technician; Pre-Service Firefighter, Police Foundations; Paramedic; Social Service Worker

CO-OP EDUCATION: Applied projects, work placements, field camps and internships

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Agreements with 16 universities in Ontario, across Canada and internationally

Fleming College
Experience. Success

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

George Brown

THE TORONTO CITY COLLEGE

Know yourself? Know your strengths? George Brown College offers a way to build on your interests and talents and pursue higher academics.

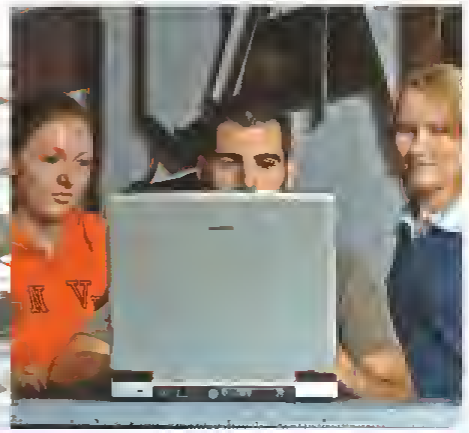
George Brown College offers five bachelor's degree programs that combine career-building industry experience with bachelor's degree level academic learning in the classroom. The combination gives students the opportunity to get a degree in an area that interests them, while building their career contacts along the way.

For several years George Brown College, in collaboration with Ryerson University, has offered Nursing and Early Childhood Education degree programs. The college now offers three degree programs on its own: Bachelor of Applied Business in Financial Services; Bachelor of Applied Technology in Construction and Environmental Regulations and Compliance; and Bachelor of Applied Business in Hospitality Operations Management. The program curriculums have been developed in conjunction with industry partners, and our professors have the academic qualifications (for example, master's or doctorate degrees), the appropriate professional designations (for example, CA or CGA) and industry experience. As Alicia Paczek, one of the Hospitality Management degree students put it, "I had always known that I wanted to be involved in organizing special events. During a trip to Europe in my last year of high school, I realized that working on large-scale events like the Olympics would allow me to see the world. When I got home, an information package about George Brown's Hospitality Management degree was waiting for me, and after taking a tour, I knew that it was meant to be. The facilities are awesome, the teachers are friendly, the school atmosphere is welcoming and down-to-earth, and knowing that I will graduate with a well-rounded bachelor's degree is the icing on the cake."

George Brown also offers more than 140 diploma and post-graduate programs in the areas of Business, Technology, Hospitality and Tourism, Health Sciences, Community Services, Performing and Creative Arts, and Design. George Brown programs are the closest you can get to on-the-job experience: our state-of-the-art labs mirror today's workplaces and you'll find the best co-op positions and work placements near our downtown campuses. There's no better place to be a student than at George Brown, The Toronto City College!

George Brown
The Toronto City College





Quick Stats

WEB SITE: www.georgebrown.ca

CAMPUSES: Three in downtown Toronto

ENROLMENT: Full time, 12,000; Part time: 45,000

FACULTY: Full time, 450; Part time: 500+

TUITION: $2,300 and up, including ancillary fees

CONTACT INFO: info@gbrowne.on.ca

FINANCIAL AID: $3.25 million

MOST POPULAR PROGRAMS: Dental Hygiene; Early Childhood Development, Chef Training, Nursing; Performing Arts; Technology; Theatre Arts; Business

DEGREE PROGRAMS: Construction and Environment - Regulations and Compliance; Early Childhood Education, Financial Services; Hospitality Management, Nursing

CO-OP EDUCATION: Work experience or paid co-op terms. See Web site for details

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Collaborative University Programs: Ryerson (Nursing, Early Childhood Education); Transfer Agreements: Ryerson, York, Guelph, Lakehead, Calgary, New Brunswick, Johnson and Wales (USA), Bishop's, Maryland (USA), Adelphi (USA), Niagara (USA), South Carolina, Houston, California Polytechnic, LaRoches Hotel Management School, and others

Georgian College

BARRIE, ORILLIA, OWEN SOUND

With continuing great reviews from graduates and employers alike, an unprecedented choice of program offerings and exciting campus expansions, there has never been a better time to be at Georgian College.

In the latest KPI report, Georgian scored the best results in graduate placement, marking the sixth year in a row that we achieved a placement rate above 90 per cent. We also earned the best combined graduate employment and graduate satisfaction scores.

For the fourth year running, an independent national survey has chosen Georgian as the only college or university to be included in Canada's Top 100 Employers.

We are among the leaders in co-op education in Canada. Forty per cent of our programs are co-op and almost every other full-time post-secondary program has some type of workplace component.

We provide a full range of education, from college preparation to diploma and post-graduate programs, to applied degrees and degrees.

The Institute for University Partnerships and Advanced Studies continues to provide higher educational opportunities. In just three years, enrolment in degree studies has grown to 1,200.

In partnership with Laurentian University, students can now complete a three-year Bachelor of Arts degree at the Barrie and Orillia campuses and earn a four-year Honours BA with an additional year of study at Laurentian. A new agreement with the University of Windsor offers a Bachelor of Applied Science - Mechanical Engineering (Automotive Option) at the Barrie campus. The Institute also offers a B.Sc. - Nursing with York University and two Georgian-specific degrees: the Bachelor of Applied Business - Automotive Management (co-op) and Bachelor of Applied Human Services in Police Studies.

Georgian goes the extra mile in financial aid, distributing about $3 million in awards and bursaries annually. That includes 125 entrance scholarships worth more than $100,000 - double the number of any other Ontario college.

Our Barrie campus has expanded dramatically, adding the $27-million Centre for Technology Enhanced Learning. The Student Athletic Centre has doubled in size, and student life has been enhanced with a 525-bed residence. The Orillia Campus has seen the creation of a veterinary technology teaching hospital and a new fitness centre.

Quick Stats

WEB SITE: www.georgianc.on.ca

CAMPUSES: Barrie, Orillia, Owen Sound, Collingwood, Midland, Muskoka, Orangeville

ENROLMENT: Full time: 7,000; Part time: 27,000

FACULTY: Full time: 268; Part time: 500

TUITION: $2,763, including ancillary fees

CONTACT INFO: Barrie: 705-722-1560, Orillia: 705-325-2740, ext. 3030; Owen Sound: 519-376-0840, ext. 2030. inquire@georgianc.on.ca

ON-CAMPUS HOUSING: Barrie campus residence: 525 beds

FINANCIAL AID: $3 million annually, including 125 entrance scholarships

MOST POPULAR PROGRAMS: Automotive Marketing; Automotive Manufacturing, Business, Hotel and Resort Operations; Jewellery and Metals, Nursing, Bachelor of Applied Business - Automotive Management, Bachelor of Applied Human Services - Police Studies

DEGREE PROGRAMS: Three-year BA (Laurentian University), B.Sc. - Mechanical Engineering (University of Windsor); Bachelor of Applied Business - Automotive Management (co-op); Bachelor of Applied Human Services - Police Studies (co-op)

CO-OP EDUCATION: 38 programs

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Four-year BA (Laurentian University); four-year Bachelor of Social Work (Laurentian University), four-year B.Sc.N. (York University)

GEORGIAN
YOUR COLLEGE. YOUR FUTURE.

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Humber

STAND OUT FROM THE CROWD

Humber Institute of Technology and Advanced Learning is one of Canada's leading learning solution providers, offering bachelor's degree, diploma, certificate, apprenticeship and post-graduate programs. In 2003, the Ontario government designated Humber as an Institute of Technology and Advanced Learning, with the authority to grant bachelor's degrees in up to 25 program areas. One of 12 Vanguard Learning Colleges in North America, and the only one in Canada, selected for its excellence in education and training, Humber will ensure that you stand out from the crowd.

• Stand out with strong academics and real-world experience. Humber works closely with business and industry leaders to develop programs that meet the needs of today's employers.

• Stand out through Humber's strong industry ties. Employer networking events, industry speakers, work placement programs and outstanding alumni connect students with their chosen field. No wonder 87 per cent of Humber's graduates are employed within six months of graduating, and 91 per cent of employers are satisfied with Humber graduates.

• Stand out with more choices for your education. At Humber you can design a highly personalized and flexible education path to take you exactly where you want to go.

Humber offers five choices in bachelor's degree programs: E-Business, Industrial Design, Manufacturing Management, Paralegal Studies and Nursing (in collaboration with the University of New Brunswick). Six integrated bachelor-diploma programs are also offered in partnership with the University of Guelph.

More than 150 program options at the diploma, certificate, apprenticeship and graduate level are available in:

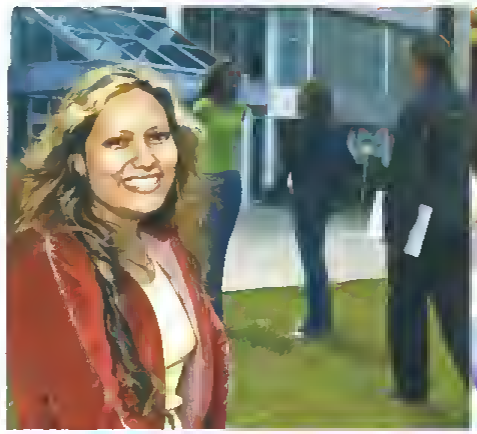
- Applied Technology
- Business
- Creative and Performing Arts
- Health Sciences,
- Hospitality, Recreation and Tourism
- Liberal Arts and Sciences,
- Media Studies and Information Technology,
- Social and Community Services

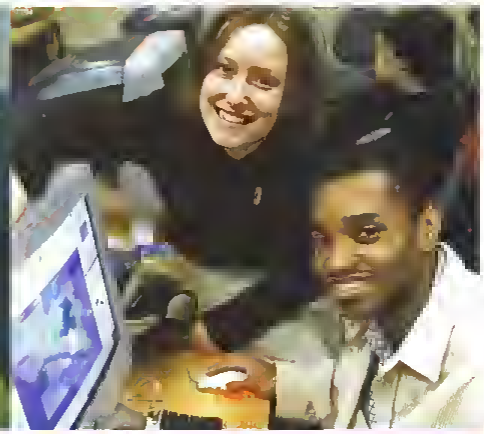
In 2003-04, Humber undertook over $131 million in capital development projects, including new residences and additional instruction space, as well as a new student centre and expanded facilities for the bookstore at Humber Lakeshore Campus.

In addition to providing education services to students on the verge of entering the workforce, Humber provides customized corporate training and business-to-business partnerships to 11,000 employees annually.

For more information, or to arrange a tour, please call 416-675-5000.

HUMBER





Quick Stats

WEB SITE: www.humber.ca

CAMPUSES: North and Lakeshore, Toronto

ENROLMENT: Full time: 15,000; Part time: 35,000; International: 1,120

TUITION: Diploma/Certificate: $2,450, Bachelor's degree: $4,900; Post-graduate diploma/certificate: $3,325; International Students: $11,034; Part time: varies

CONTACT INFO: Full time: 416-675-5000, Part time: 416-675-5005; enquiry@humber.ca

ON-CAMPUS HOUSING: North: 1,029 beds; Lakeshore: 428 beds

FINANCIAL AID: $2.5 million in bursaries and scholarships

MOST POPULAR PROGRAMS: Acting for Film and Television, Advertising and Graphic Design, Architectural Technology, Business Administration; Child and Youth Worker; Comedy, Creative Photography; Culinary Management, Electrical Engineering Technology; Film and Television Production, Industrial Design, Interior Design, Journalism; Multimedia 3D Computer Animation, Music; Nursing, Paralegal, Paramedic, Police Foundations, Public Relations, Social Service Worker; Wireless Telecommunications

CO-OP EDUCATION: Most programs incorporate a work placement

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Formal agreements with 28 universities in Ontario, Canada, the United States and internationally; See www.transferguide.humber.ca for a list of 49 universities. Collaborative programs with the University of Guelph to offer integrated bachelor-diploma education, and with the University of New Brunswick.

La Cité collégiale

Located in Ottawa, La Cite collegiale is Canada's largest French-language college outside Quebec. Each year, about 10,000 students from across Canada and from different countries choose La Cite collegiale for practical training that meets job market demands. Of theses, some 3,500 are full-time students enrolled in the College's 70 full-time programs.

Known for the excellence of its programs and facilities, La Cite collegiale is well known in three areas of specialization: Media Studies, Health Sciences and Skilled Trades.

In January 2004, La Cité collegiale inaugurated a new $7-million Centre of Excellence in Media and Communication. In this Centre, the college has created a real-life workplace environment by providing the students with state-of-the-art equipment. Journalism students work on laptops and have access to a newsroom. In Electronic Journalism, training is provided on AVID workstations.

An agreement with the University of Ottawa allows students to combine two years of Journalism at La Cite collegiale with two years of Communication at the University, to earn both a college diploma and a university degree.

Students enrolled in Public Relations and Publicity programs benefit from real-work experience offered through agencies established on campus. These agencies operated by the students offer specialized services such as developing communication plans and creating graphic design posters.

To meet the growing market demand for trained health-care professionals, the College is an active member in a national consortium with 10 other Canadian colleges and universities. The College's commitment is to increase the number of Francophone graduates across Canada, qualified to provide health-care services. Within the next five years, La Cite collegiale intends to increase its number of graduates in the Health Sciences by more than 500.

La Cite collegiale now offers the country's first-ever Applied Degree in Biotechnology. Upon graduation from this four-year program, students will be highly qualified technologists, having acquired theoretical knowledge and comprehensive research skills. The College has recently invested $3 million to offer this unique program.

The College now has a total of some 77,000 square feet dedicated to technical trades training in Ottawa, Cornwall and Hawkesbury. The Technical Trades Institute applies innovative teaching models in all of its 21 specialized programs in the construction, manufacturing, motive power and service sectors.

With nine new certificate programs (carpenter, hairstyle designer, plumber, electrician, industrial mechanic-millwright, welder-fitter, machinist, stone/brick mason and building maintenance technician), the College is the leading French-language training centre for trades outside Quebec.

La Cite collegiale is a "must" for any student wishing to study in French in a bilingual city. Last year, 91 per cent of La Cite collegiale's bilingual graduates obtained a job within six months after graduation. Students' satisfaction is in the province's top 5%. La Cite collégiale, Ottawa's Francophone college!

la cité collégiale

Quick Stats

WEB SITE: www.lacitecollegiale.com

CAMPUSES: Ottawa, Hawkesbury, Cornwall

ENROLMENT: Full time: 3,500, Continuing education: 5,000

FACULTY: Full time: 190, Part time: 260

TUITION: $ 2,283/year, including ancillary fees; Foreign students: $9,800/year, including ancillary fees

CONTACT INFO: admissions@lacitec.on.ca

ON-CAMPUS HOUSING: Modern student residence: 251 beds, For information: 613-742-3414 or visit www.lacitecollegiale.com

FINANCIAL AID: $800,000

MOST POPULAR PROGRAMS: Automotive Body Repairer; Automotive Service Technician; Biotechnology; Brick and Stone Mason; Computer Engineering Technology; Early Childhood Education; Electrician, Electronics Engineering Technology; General Carpenter; Hairstylist; Information Security; Industrial Mechanic Millwright; Journalism; Machinist; Paramedic; Photography; Plumber; Police Foundations; Restaurant Service; Security Management; Social Service Worker; Technology; 3D Animation; Telecommunications; Television and Radio Broadcasting; Welder

CO-OP EDUCATION: Business Administration; Civil Engineering Technology; Computer Programmer; Information Security Technology; Computer Systems Technician; Computer Engineering Technology; Electronics Engineering Technology; Forestry Technician; Office Administration Executive; Telecommunication Engineering Technology

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: La Cité collegiale has transfer agreements with the University of Ottawa in Journalism, Correctional Services; Early Childhood Education, Police Foundations; Nursing, Administration; Social Service Worker; and Social Service Worker - Gerontology. It also offers a Webmaster Certificate jointly with New Brunswick's Dieppe College.

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Lambton College

THE BRIDGE TO YOUR FUTURE

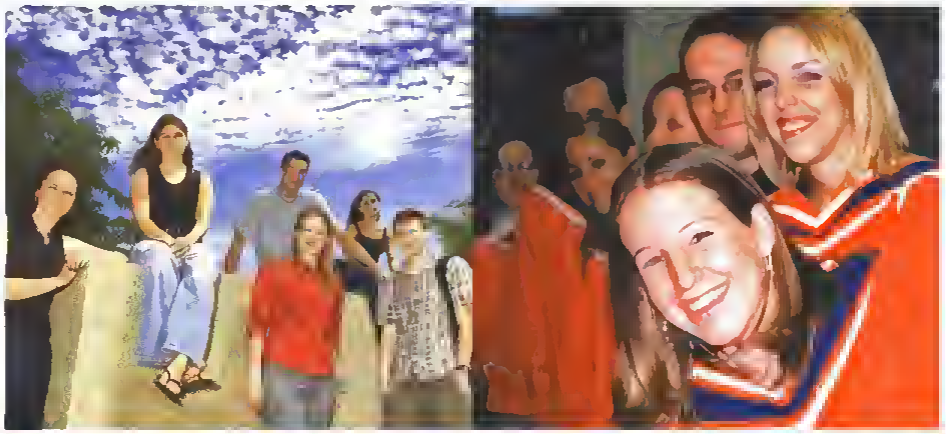
Over the past 38 years Lambton College one of the jewels in the southwestern Ontario community of Sarnia has earned an international reputation as a highly specialized institution Small class sizes and the opportunity for tailored programs combined with state-of-the art facilities, are the basis for an enviable track record of success

Student success is one of the college's priorities and to that end, it has invested millions to build an addition to house seven computer labs and a new Learning Innovation Centre which is a high-tech resource area designed to provide college staff with the tools and training to become actively involved in e-learning Lambton College now offers on-line courses in the flagship three-year co-op Chemical Production Engineering Technology program It also opened the doors to its Centre of Excellence for Process Manufacturing, which will provide more graduates to the process manufacturing industry and opened a second residence and a Student Centre

All these combined with other established facilities such as the Fire and Emergency Response Training Centre, operator training simulation and leading-edge computer and instrumentation labs create the ideal learning environment in safe surroundings Lambton College helps students of all ages succeed Lambton offers full-time diplomas degrees post-diploma programs and post-secondary certificates in Technology Applied Science and Apprenticeship Fire Sciences Business and Sports Administration Health and Community Services, and Liberal Studies Lambton College offers credit and non-credit Continuing Education programs, including on-line courses Co-operative learning field and clinical placements in a supportive business community give students opportunity for hands-on learning Lambton College plans to start its new Bachelor of Applied Technology Environmental Health and Safety, in September 2005 Together with the University of Windsor, Lambton College also offers a Bachelor of Science in Nursing degree program Lambton College is the third college to offer the Community Integration Through Co-operative Education program, which opens a window to learning for students with a range of disabilities

More new programs slated for 2005 include Alternative Energy Engineering Technology, Business Administration - Information Systems Events Management, Health Information Management Internet Application Developer (IAD) Paramedic Technician and a Pre-Degree preparatory program

LAMBTON college
The bridge to your future



Quick Stats

WEB SITE: www.lambton.on.ca

CAMPUSES: 1457 London Road, Sarnia, Ont. N7S 6K4; 519-542-7751

ENROLMENT: Full time: 2,400; Part time: 5,000

FACULTY: Full and Part time: 400

TUITION: Diploma, certificate, degree students. $2,500 to $5,000 per year, including ancillary fees, International students $10,400 per year, including ancillary fees

CONTACT INFO: General Program Information, 519-541-2403; Admissions, 519-542-7751, ext. 3310

ON-CAMPUS HOUSING: 216 beds; 519-542-7751, ext. 3224

FINANCIAL AID: $575,000; 519-542-7751, ext 3306

COMPUTER ACCESS: All students have campus accounts and access to e-mail, Internet and some instructional software

MOST POPULAR PROGRAMS Chemical Production Engineering Technology, Child and Youth Worker; Fire Science Technology; Instrumentation and Control Engineering Technology; Massage Therapy; Mechanical Technician - Industrial Maintenance, Police Foundations; Sports and Recreation Administration

CO-OP EDUCATION: Through co-operative, field and technical work experience opportunities, Lambton College prepares students for life and work by providing them with the necessary skills required by a rapidly changing world

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Transfer agreements for students wishing to pursue further education have been arranged with universities and colleges throughout Ontario, Canada, the United States and other international destinations

Loyalist College

SMALL COLLEGE BIG OPPORTUNITIES.

When planning your future start with Loyalist College At Loyalist we are committed to providing you with a full range of learning opportunities and support services that will help you achieve your goals Whether you are a high school student ready to embark on a post-secondary education that will help you successfully launch your career or are currently in the workforce and looking to enhance your career opportunities - we have the options for you

Located in Belleville along the 401 corridor, Loyalist is situated on 212 scenic acres within walking distance of the Bay of Quinte The campus provides a friendly personal atmosphere that is enhanced by our unique residence village, complete with a spacious Residence Commons building state-of-the-art computer and meeting rooms and accommodations for 476 students

Loyalist offers more than 50 career-oriented programs We can help you prepare for a career in business hospitality, technology, justice and policing, skilled trades, social services media or health sciences Program lengths vary with one-year certificates and post-graduate diplomas two- and three-year diplomas and four-year degree opportunities

Many of our full time programs are available on a part time basis This offers you the flexibility to earn credits and work toward graduation at your own pace

Innovative programs have been at the forefront of change and direction at Loyalist. The addition of Chef Training, Culinary Management New Media - Production and Animation E-Journalism, Media Marketing and Sales a degree in Human Services Management and a collaborative Bachelor of Science in Nursing degree program with Brock University demonstrates Loyalist's commitment to an evolving and relevant learning environment And this learning environment continues to be enhanced with a spectacular new library lecture theatre large computer commons and additional classrooms

Loyalist students academic options are further expanded by more than 75 university transfer agreements that have been established with universities throughout Canada and around the globe

Starting with Loyalist College leads to rewarding careers Our alumni have made a significant impact on a variety of professional fields and are an outstanding reflection of the College's strengths We are proud to be the small college that offers you big opportunities.

Quick Stats

WEB SITE: www.loyalistcollege.com

CAMPUSES: Belleville, Bancroft, nine community centres

ENROLMENT: Full time: 2,800; Part time: 12,000

FACULTY: Full-time 128; Part-time 275

TUITION Full-time diploma/certificate. $1,820; Full-time international students $8,500

CONTACT INFO: 613-969-1913, 1-888-LOYALIST. hauson@loyalistc.on.ca, Admissions: Nancy Rabb: ext. 2366. rabb@loyalistc.on.ca

ON-CAMPUS HOUSING: Residence accommodates 476 students; Single room without meal plan: $4,268. Meal plan: $420 to $650, per semester

FINANCIAL AID: $950,000

MOST POPULAR PROGRAMS: Architectural Technician; Automotive Technician, Early Childhood Education, Fitness and Health Promotion; New Media Production & Animation, Nursing; Photojournalism, Police Foundations, Radio Broadcasting, Social Service Worker, Television and New Media Production

DEGREE PROGRAMS Bachelor of Human Services Management; Collaborative B Sc N with Brock University

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Athabasca University; Carleton University, University of Guelph, Lakehead University, Laurentian University; University of Lethbridge, Nipissing University, Northwood University, Midland, Michigan; Royal Roads University; Ryerson Polytechnic University; Trent University, University College of Cape Breton, University of Waterloo; University of Western Ontario; University of Windsor

LOYALIST COLLEGE BELLEVILLE · ONTARIO

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

The Michener Institute

HEALTH-CARE CAREERS—MORE THAN JUST MEDICINE

If you're interested in technology and enjoy working with people, consider a career in the applied health sciences. Doctors and nurses aren't the only health providers—hospitals wouldn't be able to function without X-ray Technologists, Respiratory Therapists, Medical Laboratory Technologists and many more health professionals.

The Michener Institute for Applied Health Sciences has educated health professionals for more than 45 years. Located in the heart of one of North America's most prestigious medical communities—Toronto, Ontario—Michener is the only post-secondary institution in Canada devoted to applied health science.

We are the only source for health professionals in many fields. Half of our programs are the only one of their kind in Ontario and more than 20 per cent are unique in Canada.

Here are five more reasons to consider Michener:

1. Hands-on clinical education.
Michener partners with more than 150 of Canada's leading hospitals and health organizations to ensure students learn from the best. Clinical education provides hands-on experience and opportunities to network with colleagues and employers.

2. Small class sizes.
Michener's focus on hands-on experience means class sizes remain small. We accept a limited number of students each year, so you get to interact with faculty one on one.

3. Excellent reputation.
Thousands of satisfied students and employers can attest to Michener's expertise. In a recent survey, 100 per cent of employers said they would hire another Michener graduate.

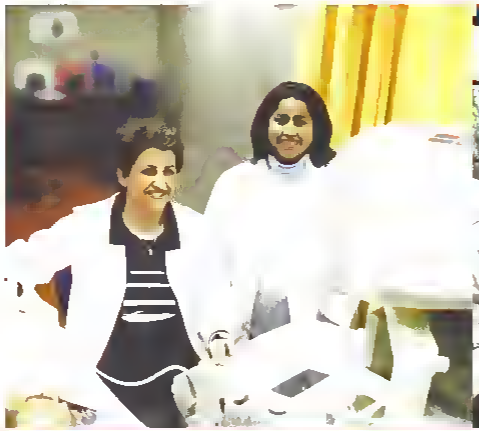
4. Leading-edge technology.
Michener boasts some of the most advanced health science technology on the continent! In addition to a fully equipped anatomy and physiology laboratory, computer facilities and microscopy labs, Michener is home to one of the most advanced radiation therapy labs in the world.

5. 100 per cent graduate employment rate.
Since 2000, most of Michener's programs have maintained a 100 per cent graduate employment rate. More than half of our students had positions before they graduated. These are positions for which students studied—careers in the applied health sciences.

Senior citizens access health care more than any other demographic, and aging baby boomers are creating a huge demand for medical professionals. Shortages are predicted in many health care fields in the near future.

If you're considering a career in health care, consider Michener.

THE Michener INSTITUTE of Applied Health Sciences





Quick Stats

WEB SITE: www.michener.ca

CAMPUS: Downtown Toronto

ENROLMENT: Full time, 900; Part time and Continuing education, 5,300

FACULTY: More than 100

TUITION: $2,800 to $4,750 per year

CONTACT INFO: Student Services, 416-596-3177 or 1-800-387-9066, info@michener.ca

ON-CAMPUS HOUSING: 107 beds in two residences in downtown Toronto. Both feature suites or single rooms with private bathrooms

MOST POPULAR PROGRAMS: Chiropody; Diagnostic Cytology; Genetics Technology; Medical Laboratory Science, MRI; Respiratory Therapy; Ultrasound

DEGREE PROGRAMS: with University of Toronto: Nuclear Medicine, Radiation Therapy, Radiological Technology; with Laurentian University: Radiation Therapy

CO-OP EDUCATION: All full-time programs include at least eight months of clinical education

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Charles Sturt University in Australia; Temple University in Pennsylvania; Ryerson Polytechnic University, York University

Mohawk College

INSPIRING LEARNING, LEADERSHIP AND CITIZENSHIP

Experience inspirational learning, leadership and exemplary citizenship at Mohawk. Our vision embraces access, quality and innovation, supports the individual development of every student and focuses on job-ready graduates.

On the top of the mountain at the western end of Lake Ontario, Mohawk College sits at the centre of the Golden Horseshoe - less than an hour's drive from both Toronto and Niagara Falls. The "Bay" area celebrates history, art and culture, with the only "Royal" Botanical Garden on the continent and hosted the 2003 World Road Cycling Championships.

As a leading national institution in technology education, Mohawk offers more than 30 programs in co-operative education. Mohawk continues to establish and nurture new partnerships with industry and government to ensure updated programming and applied research, and proudly represents the largest educational institution for apprenticeship training in Ontario.

At the advanced Mohawk-McMaster Institute for Applied Health Sciences, Mohawk's renowned Nursing degree program with McMaster University and Conestoga College constitutes the largest school of Nursing in Canada. Mohawk and McMaster jointly offer a degree-diploma program for professionals in Medical Imaging and Medical Radiation Sciences, in the highly-specialized fields of Radiography and Ultrasonography.

In another unique diploma-degree partnership, Mohawk College and Wilfrid Laurier University students enjoy the opportunity to complete a college diploma and a university degree in four years. Formal transfer agreements with other Canadian and international universities provide a wide range of meaningful options and opportunities for lifelong learning.

Wireless computer labs, an Internet cafe, fitness centres and lifestyle counselling, an online library, active and vibrant Student and Alumni Associations, and an award-winning residence with Internet, cable, telephone and 24-hour security represent special features for Mohawk students, who attend from Ontario, across Canada and 33 countries around the world.

At Mohawk, we value and celebrate the rich diversity of both learners and partners. Dedicated and caring staff in a student-friendly atmosphere with cultural and community awareness make Mohawk a fabulous choice. Each day, more than 10,000 students and staff collaborate to realize the Mohawk College commitment to excellence.

Quick Stats

WEB SITE: www.mohawkcollege.ca

CAMPUSES: Fennell Campus (Hamilton), Mohawk-McMaster Institute for Applied Health Sciences (Hamilton), Brantford Campus and Mohawk-Laurier Centre (Brantford), Stoney Creek Campus

ENROLMENT: Full time: 9,500 Canadian; International: 700

FACULTY: Full time, 445, plus part time and continuing education

TUITION: $2,400 to $4,500 per academic year, including ancillary fees

CONTACT INFO: Admissions Office: Phone, 905-575-2000, Fax: 905-575-2392, admissions@mohawkcollege.ca

ON-CAMPUS HOUSING: Residence at Fennell Campus (342 capacity)

FINANCIAL AID: More than $1.9 million in scholarships and bursaries, plus campus student employment

ADMISSIONS: Ontario Secondary School Diploma, or equivalent, with required subjects and additional criteria

MOST POPULAR PROGRAMS: Broadcasting - Radio and TV; Marketing, Building Sciences, Child and Youth Worker; Insurance, Nursing; Occupational Therapist Assistant/Physiotherapist Assistant

CO-OP EDUCATION: 33 programs in Business and Engineering Technology

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Wilfrid Laurier University, Athabasca University, McMaster University; plus many other Canadian and international universities

MOHAWK
COLLEGE OF APPLIED ARTS AND TECHNOLOGY

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Niagara College

YOUR FUTURE BEGINS AT NIAGARA COLLEGE

Niagara College has much to be proud of - consistently ranked high in student satisfaction, home of the renowned Niagara Culinary Institute, as well as Canada's first and only teaching winery, and more than 70 quality programs to offer. Our vision: enriching lives and fulfilling dreams by preparing students to pursue and achieve career success.

You'll enjoy the community atmosphere of a medium-sized college in the beautiful setting of the Niagara Peninsula. Music, theatre, restaurants, wineries, hiking trails and Niagara Falls are all just minutes from your doorstep, no matter which program and campus you choose. Small classes, and caring staff and faculty combine to provide you with the help you need to succeed. And since life is more than books and learning, Niagara's Student Administrative Councils make sure your academic year is filled with opportunities to socialize at the student centres and pubs on campus and enjoy a wide variety of activities throughout the year.

Both the Welland and Glendale campuses boast new student residences, putting you just steps away from various college services such as the Learning Resource Centre, cafeteria, Computer Centre, Campus Store, athletic facilities, and the student pub and eatery. Extensive off-campus housing is also available.

We now offer two degree programs in the areas of Hospitality Management and Photonics, which add an exciting dimension to our 60 post-secondary and 13 graduate certificate programs in the divisions of:

- Business and Entrepreneurship,
- Continuing Education,
- Environment, Horticulture and Agribusiness,
- Health and Community Studies,
- Hospitality and Tourism,
- Information and Media Studies,
- Interdisciplinary Studies and Access,
- International Education, and
- Technology.

With more than 70 programs from which to choose, as well as numerous apprenticeship and skills training opportunities, you'll find the education you're looking for at Niagara College. Niagara prides itself on developing programs that lead to rewarding careers, assisting students to work in exciting jobs around the corner and around the world. Visit our Web site, give us a call or come for a tour.

We are Niagara College Canada. Join us!

NIAGARA COLLEGE CANADA





Quick Stats

WEB SITE: www.niagarac.on.ca

CAMPUSES: Welland and Niagara-on-the-Lake (Glendale)

ENROLMENT: Full time, 6,000; Part time, 18,000

FACULTY: Full time: 230; Part time: 495

TUITION: Diploma programs, $2,516.14 (fees included); Graduate certificate programs: $3,528.82; Degree programs: $4,684.50

CONTACT INFO: InfoCentre: 905-735-2211, ext. 7559, infocentre@niagarac.on.ca

ON-CAMPUS HOUSING: Visit the Residence Web site or e-mail residence@niagarac.on.ca. Call 905-732-9700 or 905-735-2211, ext. 5400 (Welland), ext. 2000 (Glendale)

FINANCIAL AID: $2 million available in support in the form of entrance awards, bursaries, scholarships and on-campus employment opportunities

COMPUTER ACCESS: 1,700+ computers in labs and classrooms with Internet hookup located throughout the College; choice of PC or Mac software. All students have campus accounts with access to e-mail, Internet and instructional software

MOST POPULAR PROGRAMS: Broadcasting - Radio, Television and Film; Business Administration - Professional Golf Management, Chef Training; Culinary Management; Dental Hygiene, Paramedic, Police Foundations, Photonics Engineering Technician, Tourism Marketing and Operations, Winery and Viticulture Technician

DEGREE PROGRAMS: Bachelor of Applied Business (Hospitality Operations Management, Bachelor of Applied Technology (Photonics)

CO-OP EDUCATION: Currently offering 20 co-op programs in a variety of areas

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Niagara College has developed many degree completion agreements with universities and colleges in Canada and around the world. Check the College Web site for details.

Northern College

TRANSFORMING YOUR FUTURE

Creative. Determined. Focused. Ontario's smallest English-language college has developed an impressive ability to stand out and attract students who value personalized education. At less than three per cent, Northern's drop out rate is the lowest in the College's 37-year history.

This success in attracting and keeping students can be attributed to a number of new initiatives at the College, including success centres where learners can obtain immediate academic assistance.

Northern College has also introduced many new programs and innovative ways of delivering them that have proven extremely popular with high-school graduates and returning learners. The nationally and provincially accredited Veterinary Technician program and Paramedic program are in high demand, as is the province's first fast-track Civil Engineering Technology program that allows students to obtain a technologist's diploma in just two years instead of three.

Emerging as a leader in health and emergency services training, Northern offers Paramedic, Pre-Service Firefighter Education and Training, Police Foundations, a new two-year Practical Nursing diploma program, as well as a Bachelor of Science, Nursing degree program in collaboration with Laurentian University.

Veterinary Technology - Wildlife Rehabilitation and Natural Resources Technician are two new programs offered at the College's Haileybury Campus. In fact, Northern College's geography and regional economic base offer rich opportunities for related training in mining, natural resources and wildlife.

Northern College's three-year Welding Engineering Technology program, which includes a co-op option, prepares graduates for supervisory positions in fields ranging from consulting to research and development. Other programs of note include mining and instrumentation at the world-renowned Haileybury School of Mines, established in 1912.

Furthermore, Northern prides itself on its relationship with indigenous peoples, and the College's Aboriginal Council has helped shape many programs and services resulting in a 300 per cent increase in aboriginal student enrolment in just two years.

Since 1967, Northern College has produced a number of highly successful graduates, who have gone on to top positions in the fields of business, technology, human services and health sciences - at home and abroad.

Quick Stats

WEB SITE: www.northernc.on.ca

CAMPUSES: Timmins, Kirkland Lake, Haileybury, Moosonee, Kapuskasing

ENROLMENT: Full time, 1,523 (2003-04); Part time, 8,352

FACULTY: Full time: 80; Part time: 120

TUITION: $1,818.24 (full-time diploma and certificate programs) (2004-05); $2,032 (full-time apprenticeship/journey programs); $9,200 (international students), does not include ancillary fees

CONTACT INFO: Northern College, P.O. Box 3211, Timmins, Ont. P4N 8R6. 705-235-7222. Toll free (Ontario only): 1-866-736-5877. info@northern.on.ca

ON-CAMPUS HOUSING: 120-room residence Porcupine (Timmins) Campus, 34-room residence Kirkland Lake Campus

FINANCIAL AID: More than $200,000 in annual bursaries

COMPUTER ACCESS: Student-to-computer ratio: 1 to 1; Computer labs, laptop technology programs, Internet

MOST POPULAR PROGRAMS: Bachelor of Science, Nursing; Instrumentation Technician; Paramedic; Police Foundations, Pre-Service Firefighter Education and Training; Veterinary Sciences, Welding Engineering Technology

CO-OP EDUCATION: Welding Engineering Technician – Inspection, Welding Engineering Technology

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS: Athabasca University, Lakehead University, Laurentian University, Nipissing University, Royal Roads University; University of Western Sydney, Australia; University of Windsor

NORTHERN COLLEGE

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Sault College

WORKING FOR YOU

Student academic and career success is clearly the focus of Sault College's friendly and caring faculty and staff. Sault College statistics reveal that each year hundreds of students travel to Sault Ste. Marie, to make Sault College their home away from home. A safe, welcoming community of 75,000, Sault Ste. Marie and its surrounding area provide a four-season paradise, as outdoor enthusiasts enjoy the lush forests and extensive waterways of Algoma Country.

Sault College emphasizes personal attention and meeting the individual needs of each learner. Located in the border city of Sault Ste. Marie, Sault College is especially well known for its Aviation Technology (Flight) and Natural Resources programs, including Fish and Wildlife Technician, Forestry Technician, and Parks and Outdoor Recreation Technician, as well as Health Sciences programming.

Program choices include options in Aviation, Business, Computer Studies, Creative Arts, Criminal Justice, Engineering Technology and Applied Sciences, the Skilled Trades, General Education, Health Sciences, Hospitality, Human Sciences, Native Education, Natural Resources and Teacher Education. In addition to the International University College Division established in 2001, which allows degree completion in Computer Studies, Criminal Justice and Teacher Education programs, Sault College partnered with George Brown College, as well as the railway industry, to develop specialized programming in Signals and Communication, and Conductor Training.

The life of a student involves more than just academics, and Sault College and its community offer a full range of athletics, social and cultural opportunities. Hundreds of Sault College students participate in intramural programming. At the varsity level, Sault College's basketball (men's and women's) and volleyball (women's) compete in the Ontario Colleges Athletic Association.

Excellent programs, knowledgeable, experienced faculty, a unique natural environment, and a safe and caring community help make Sault College an ideal choice for your education.

Sault College. Working for you.

Sault College



Quick Stats

WEB SITE: www.saultcollege.ca

CAMPUSES: Sault College's main campus is located in Sault Ste. Marie, Ontario

ENROLMENT: Full time: 2,200, Part time and other training students, 8,500

FACULTY: Full time 130

TUITION: $2,314 to $4,898.50, including ancillary fees

CONTACT INFO: Registrar's Office 705-759-6700; 1-800-461-2260. Registrar@saultc.on.ca

ON-CAMPUS HOUSING: Ray Lawson Hall accommodates 164 students in single and double rooms

FINANCIAL AID: $1 million available in an extensive scholarship, bursary and award program

COMPUTER ACCESS: One of the best computer-to-student ratios in Ontario

MOST POPULAR PROGRAMS: Aviation Technology (Flight); Fish and Wildlife Technician, Forestry Technician; Parks and Outdoor Recreation Technician, Police Foundations, Signals and Communication (Railway), Collaborative Bachelor of Science - Nursing

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS
Available with several Canadian and American universities

Seneca

ACCESS. INNOVATION. SUCCESS.

Access Seneca College and you access the tools for a bright and successful future. Canada's largest college is a place of opportunities to make your goals a reality. Students can choose from more than 260 careers and receive the academic foundation, workplace experience and practical training needed for a successful career.

In addition to leading-edge diploma, post-diploma and graduate certificate programs, Seneca offers five bachelor's degrees. Seneca's bachelor's degree programs offer students high-quality education that responds directly to employer demands. Our Flight Training (Pilot), Environmental, Nursing, Software Development and Financial Services Management programs are rigorous, specialized bachelor's degrees that combine practical hands-on experience with a solid theoretical foundation and include a co-op component to ensure students get work experience before graduation.

With campuses throughout the Greater Toronto Area, Seneca's size and diversity give students the advantage of partnerships with industry leaders, the latest in hands-on computer technology and a variety of class sizes and methods of teaching, from in-class lectures and online learning to co-op and field placements, in applied arts, business, health sciences and technology.

Leading areas of study include biotechnology, business, computer studies and health sciences. Seneca's accounting and finance, aviation, early childhood education, environmental, electronic engineering, fashion, fire protection, international business and marketing, law and 3D digital animation programs have received national and international acclaim.

Apartment-style residences and a thriving student community make Seneca a hub of activity all year round. Students benefit from a long list of supportive services and opportunities to explore their personal interests that make the student experience a truly exceptional one.

Growing to meet the needs of students today and in the future, Seneca's Newnham Campus now features a new Faculty of Business building, a new Learning Commons and specialized business education centres. The new Technology Enhanced Learning Building adjoining the Seneca@York Campus has opened its doors to advancing the use of technology in education and a new Markham campus will open its doors in the coming year.

Seneca is a national college that provides opportunity for all students in Canada and around the world. We are committed to creating a dynamic, state-of-the-art learning and working environment, offering excellence in education and building strong relationships with our students, partners and community. We look forward to welcoming you to Seneca.

Dr. Rick Miner,
President, Seneca College

Quick Stats

WEB SITE: www.senecac.on.ca

CAMPUSES: Toronto, Markham, King City

ENROLMENT: Full time, 18,000; Part time, 90,000

TUITION: Full-time diploma: $1,820 for one-year (two semesters), does not include ancillary fees

CONTACT INFO: Admissions/Calendars: 416-491-5050, ext. 2800, admissions@senecac.on.ca. Calendars, Part time: 416-491-5050, ext. 2522

ON-CAMPUS HOUSING: Apartment-style residences: Newnham Campus: 1,107 beds. King Campus: 233 beds. Housing Services assists students in finding accommodations near all campuses

FINANCIAL AID. $5.3 million in awards and scholarships

MOST POPULAR PROGRAMS. Accounting and Finance; Animation, Biochem, Broadcasting, Business; Computer Studies; Creative Advertising; Early Childhood Education, Flight; International Business and Marketing, Legal Studies; Nursing, Police Foundations; Veterinary Technician

DEGREE PROGRAMS. Bachelor of Applied Business - Financial Services Management, Bachelor of Applied Technology - Integrated Environmental Site Remediation; Bachelor of Applied Technology - Software Development, Bachelor of Applied Technology - Flight, Collaborative B.Sc.N. degree with York University - Nursing

CO-OP EDUCATION Available in some 35 programs

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS:
Available with universities throughout the world, including countries such as Australia, Canada, England, South Africa and the United States, in more than 60 programs

Seneca

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Sheridan College
Institute of Technology and Advanced Learning

CHOOSE YOUR FUTURE

There are many things that go into choosing a course of study and a place to pursue it - each as individual as you are. In a world of post-secondary options, Sheridan is set apart by many factors: a reputation for innovation and creativity; the relevance of our programs to the marketplace and our dedication to providing an exceptional student experience to a steadily growing student body.

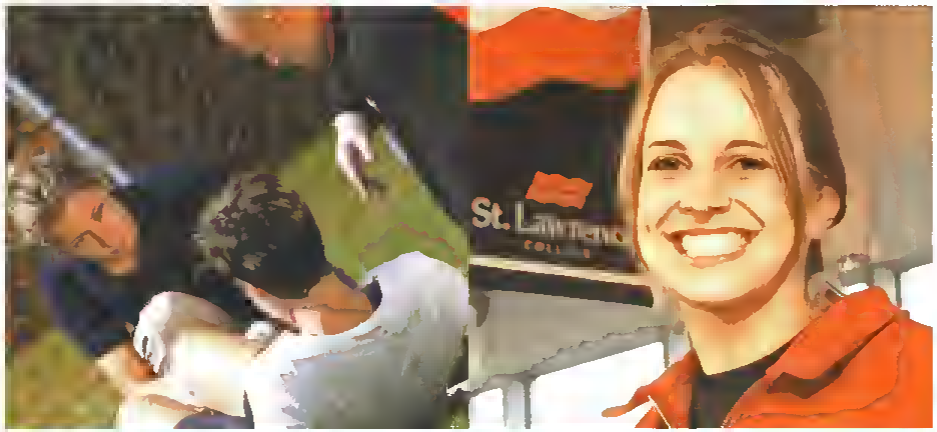
Today, Sheridan serves 14,700 full-time students - a long way from our origin in 1967 as a community college with a handful of students. The achievements of our students, faculty and alumni have combined to make us one of the most lauded post-secondary institutions in Canada. In the past year alone, these accolades have included an Academy Award (to Animation alumnus Chris Armstrong), national awards for teaching excellence (to Brian Lyons, Business faculty) and student leadership (Suzanne Demars, Social Work student), the American Cinema Editors (ACE) Award (to Thomas Berger, Advanced TV and Film student) and a provincial innovation award for our visionary mobile computing program.

Sheridan's reputation for excellence extends across five academic schools: Animation, Arts and Design; Business; Community and Liberal Studies; Applied Computing and Engineering Sciences; and Continuing Education and Corporate Training. Program options range from one-year certificate and graduate certificate programs to four-year bachelor's degrees. The curriculum of every program is continually renewed to reflect current trends, with the active input of advisory committees drawn from the relevant industries and professional disciplines.

Our two campuses are also evolving and growing to better serve our students and the changing economy. In 2000, the Sheridan Centre for Animation and Emerging Technologies opened its doors at our Oakville campus to students specializing in digital media technologies. In 2005, the Centre for Advanced Manufacturing and Design Technologies will open at our Brampton campus, to provide related training from the apprenticeship to the graduate level.

Our focus on student success is supported by the resources of a Career Centre at each campus, devoted to helping students launch their careers; two libraries and a range of other specialized services. This commitment to service, academic excellence and our student-focused environment has brought us national and international recognition.

Sheridan



Quick Stats

WEB SITE: www.sheridaninstitute.ca

CAMPUSES: Trafalgar Road Campus (Oakville), William G. Davis Campus (Brampton)

ENROLMENT: Full time: 14,700; Continuing education: 37,000

FACULTY: Full time: 345; Part time: 300, Continuing education: 325

TUITION: 2004-05: Domestic regulated fees: $2,645; Domestic deregulated fees: $2,645 to $13,925, including ancillary fees

CONTACT INFO: 905-845-9430; Admissions: 905-845-9430 infosheridan@sheridaninstitute.ca

ON-CAMPUS HOUSING: 1,050 beds

FINANCIAL AID: $6.8 million

MOST POPULAR PROGRAMS: Advertising; Architectural Technology; Bachelor of Applied Arts (Animation); Bachelor of Applied Arts (Illustration); Bachelor of Applied Health Science (Athletic Therapy); Computer Science Technology; Early Childhood Education; E-Commerce Management; Electronics Engineering Technology; Financial Planning; Media Arts; Pharmacy Technician; Police Foundations; Social Service Worker

DEGREE PROGRAMS: Applied bachelor's degree programs: Animation, Illustration; Athletic Therapy; Information Systems Security. Joint degree programs: Bachelor of Design (with York University); Art and Art History, Communication, Culture and Information Technology, Theatre and Drama Studies (with University of Toronto, at Mississauga), B.Sc. - Computing and Network Communications (with Brock University)

CO-OP EDUCATION: 23 programs

Quick Stats

WEB SITE: www.sl.on.ca

CAMPUSES: Kingston, Brockville, Cornwall

ENROLMENT: More than 5,000 full-time students; 20,000 part-time registrants

FACULTY: More than 200 full-time and 500 part-time teachers

TUITION: Ranges from $2,609 to $3,178, including ancillary fees, for most diploma programs

CONTACT INFO: 1-866-470-8814, liaison@sl.on.ca

ON-CAMPUS HOUSING: 600-bed Kingston Campus residence, 45-bed Cornwall Campus residence; brand new 60-bed Brockville Campus residence for fall 2005

FINANCIAL AID: More than $2 million annually

ADMISSIONS: Apply online at the Ontario College Application Service (OCAS) Web site, www.ontariocolleges.ca, for diploma and certificate programs

MOST POPULAR PROGRAMS: Advertising; Biotechnology; Chef and Culinary Management; Child and Youth Worker; Marketing; Police Foundations; Veterinary Technology; Computer Engineering Technology

DEGREE PROGRAMS: Bachelor of Science in Nursing (B.Sc.N.), Bachelor of Applied Arts - Behavioural Psychology; Bachelor of Applied Technology - Microelectronics

CO-OP EDUCATION: Culinary Management, Hotel & Restaurant Management, Bachelor of Applied Arts - Behavioural Psychology, Bachelor of Applied Technology - Microelectronics

TRANSFER AGREEMENTS/COLLABORATIVE PROGRAMS
Athabasca University, Carleton University, University of Guelph, Lakehead University, Laurentian University, Lethbridge University; Mercy College (State of New York); Queen's University, Ryerson Polytechnic University, State University of New York at Potsdam (SUNY); University of Western Ontario; University of Western Sydney, Australia.

St. Lawrence College

EXPANDING OPPORTUNITIES

St. Lawrence College offers a diverse range of more than 80 innovative diploma and certificate programs, three degree programs and four post-diploma programs at our three campuses, located along the St. Lawrence River: Kingston, Brockville and Cornwall are beautiful, safe and historic cities, each with its own unique charm. Our campuses are conveniently located along Hwy. 401, between Toronto and Montreal, and are less than one hour south of Ottawa. Our communities offer an extremely reasonable cost of living, yet are very close to the large urban centres.

If you like a fast-paced, exciting atmosphere, join close to 4,000 other students at our Kingston campus. Kingston, with a population of 120,000, has been named one of the best student cities in Canada, with almost 20,000 students from St. Lawrence College, Queen's University and the Royal Military College. From sailing to nightlife, from cozy street cafes to theatres, there is something for every taste.

The Brockville campus provides a more intimate and personal learning experience in a smaller community of 20,000. The campus has a broad program mix - from Music Theatre - Performance, to Pre-Service Firefighter Education and Training - and prides itself on a variety of student life activities, many focused on the adjacent recreational facilities, including tennis courts, baseball diamonds, soccer fields and an arena.

The Cornwall campus is situated in a beautiful park setting on the bank of the St. Lawrence River. The campus delivers a wide range of programs, yet is small enough to foster a warm and friendly environment for its students. Cornwall is conveniently located less than one hour from Ottawa and Montreal, and has retained a unique multicultural flair.

St. Lawrence is very excited to announce a new partnership with Laurentian University. The College will be offering a four year Bachelor of Science in Nursing (B.Sc.N.) in collaboration with Laurentian in fall 2005.

The College will unveil a virtual tour of its three campuses in November 2004.

St. Lawrence College
BROCKVILLE • CORNWALL • KINGSTON • WWW.SL.ON.CA

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Applause from our graduates

ROSE ADAMS

BARRISTER AND SOLICITOR
ONTARIO COLLEGE GRADUATE
BARRISTER OFFICE ADMINISTRATION PROGRAM

"Georgian College changed my life. It opened up a whole new world for me. The college and the teachers I met taught me to think beyond my present situation and into a future with endless possibilities."

MICHAEL CLOUTHIER

PRESIDENT AND CEO
ASTRAZENECA CANADA INC.
ONTARIO COLLEGE GRADUATE
BUISINESS PROGRAM

"In a knowledge-based economy, employers are looking for people who can think their way through a problem. People who can see the direction the world is going in - and can propose fresh solutions. Sheridan College offers a great environment in which to learn, because the teaching is geared to the business world. It's about practical skills."

ASSIA HUSSAIN

CHIEF, CUSTOMS COMMERCIAL OPERATION
CANADA BORDER SERVICES AGENCY, PEARSON INTERNATIONAL AIRPORT
ONTARIO COLLEGE GRADUATE
CUSTOMS ADMINISTRATION PROGRAM

"My Fleming College education constructed the platform for me on which to create my career."



Applause from our graduates

ANTHONY LONGO

PRESIDENT AND CEO
LONGO BROTHERS FRUIT MARKETS INC.
ONTARIO COLLEGE GRADUATE
BUSINESS ADMINISTRATION PROGRAM

"At Humber College, I had the opportunity to learn from instructors who are also active business leaders. They taught me the value of continuing education throughout one's life. I also gained the skills required to balance a busy family and an even busier family business. Discipline, decisiveness and diplomacy are just a few of the skills applied to my daily challenges."

BEVERLY D. THOMSON

CO HOST OF CTV'S CANADA AM
ONTARIO COLLEGE GRADUATE
BROADCASTING -- TELEVISION PROGRAM

"I learned focus and determination at Seneca College. My teachers were an inspiration -- they were from the industry...Very importantly, they taught me how to get a job."

PATRICIA MILLS

PUBLISHER NORTHERN ONTARIO BUSINESS
ONTARIO COLLEGE GRADUATE
JOURNALISM PROGRAM

"My Cambrian College education provided me with invaluable practical experience that I could use as soon as I started work. It was also excellent preparation for the life-long challenges that you encounter in the working world. Equally important, through Cambrian, I gained an understanding of what it takes to be part of a community, so that as a graduate, I could make a meaningful contribution to the larger community."

AN ADVERTISING SUPPLEMENT TO THE NOVEMBER 15, 2004, ISSUE OF MACLEAN'S

Applause from our graduates

MARTIN VANASSE

TELEVISION NEWS ANCHOR AND REPORTER
TQS GATINEAU OTTAWA
ONTARIO COLLEGE GRADUATE
BROADCASTING PROGRAM

"In my opinion, the training provided at La Cité collégiale fully prepares students for work in the field of communications, and paves the way for a promising career. On the first day of classes, I found myself in a studio, immersed in the work a radio host would face in a typical day. I knew then that I had made the right choice."

DR. JASON HEAVENS

EMERGENCY PHYSICIAN
OTTAWA HOSPITAL
ONTARIO COLLEGE GRADUATE
AMBULANCE AND EMERGENCY PROGRAM

"My experience at Algonquin College made me even more passionate about critical care. It helped cement my interest and focus me once I got into medical school, and it gave me a head start. I knew anatomy, physiology, pharmaceuticals."

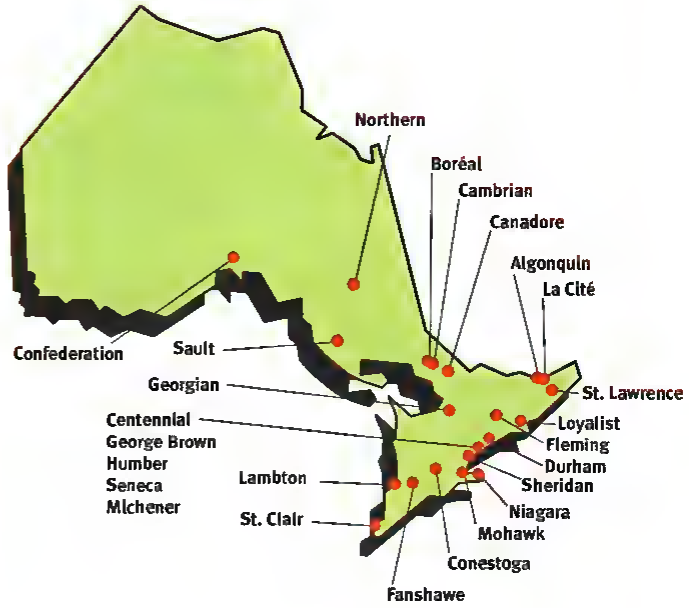
DAVID HEYENS

PRESIDENT, CARDIRAL HEALTH'S ENCAPSULATION BUSINESS FOR NORTH AMERICA
ONTARIO COLLEGE GRADUATE
MARKETING BUSINESS PROGRAM

"From my first counseling session to where I am today, the basic business skill, my foundation, is from St. Clair College. I am grateful for the chance this institution has given me. What colleges do for the community is great."



Ontario Colleges: Real Careers for Real Life





As Canadian entrepreneurs have aspired to do since the original fur-trade contract was signed in 1670. From beaver pelts to media mergers and acquisitions, the thrill of the deal continues to inspire our hearts and minds. And whether it's of historic proportions or a small business coup, many success stories happen because of the skilled people behind the scenes trained in real business practices. What we don't read in the headlines is that many are Ontario College graduates. From the financial planner who helps make capital available, to the regulatory administrator who keeps the record straight...From the market analyst who prepares the groundwork to the law clerk who manages the details...Ontario College graduates help make today's business work.

Today, Ontario Colleges educate more than half a million people every year in the skills that add value to our lives. And with an economic impact of $11 billion a year, the College system adds significant value to the country's most prosperous province.

That's why Ontario invests in Colleges.

Colleges of Applied Arts and Technology of Ontario

OCAS SACO Ontario College Application Services
Service d'admission des collèges de l'Ontario

Ontario Colleges: Real careers for real life.

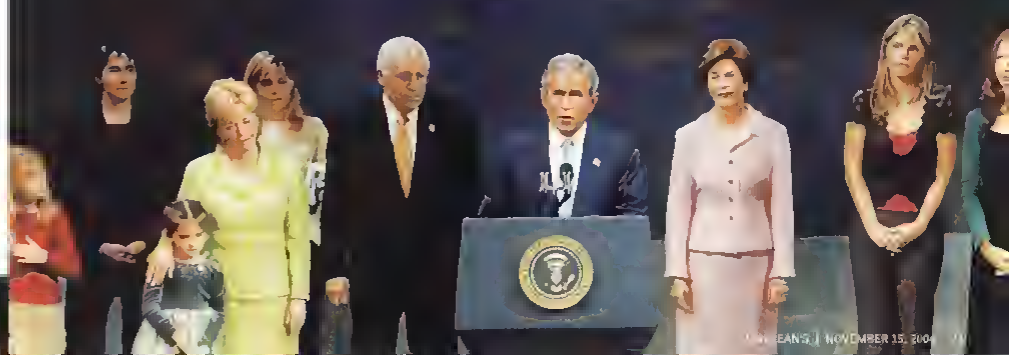
FIND OUT MORE ABOUT ONTARIO'S COLLEGES OF APPLIED ARTS & TECHNOLOGY: WWW.ONTARIOCOLLEGES.CA



Politics

THE RIGHT MAKES MIGHT

George W. Bush rides a religious wave back to the White House—with a radical agenda that could change America, writes JONATHON GATEHOUSE



RANKED BY BOX office gross, Michael Moore's stridently anti-Dubya documentary, *Fahrenheit 9/11*, is the 12th most popular movie in America so far this year. Mel Gibson's bloody religious epic, *The Passion of the Christ*, is the third. The gap between their domestic ticket sales currently stands at a colossal US$251 million. If you'd considered this information last month, you might have made a tidy profit betting on the presidential election.

That's because the vast number of God-fearing moviegoers down at the multiplex were probably a better indicator than any opinion poll of the strength of the political force that helped hand the Republicans another four years in the White House. Conventional wisdom was that Gibson's blow-by-blow account of the Crucifixion, acted in Latin and Aramaic, would have limited appeal, but it found an audience thirsting for its message of faith and sacrifice. At times over the past year, the mire of Iraq and an underperforming economy at home made George W. Bush's chances for a second term look bleak. But in a re-election campaign that focused on the tests facing America and offered the promise of redemption, he too found a multitude of believers.

"I'm glad that people of faith voted in this election. I appreciate all the people who voted," Bush said after his victory, reacting to suggestions the election might have opened a spiritual fissure in an already politically divided country. "But I will be your president regardless of your faith. The great thing that unites us is you can worship freely if you choose, and you don't have to worship. And if you're a Jew, a Christian, a Muslim, you're equally American."

But for all the months of stump speechifying, endlessly looping TV ads, and op-ed diatribes pounding away at Iraq, the war on terror, jobs and health care, the U.S. election hinged on religious voters and their judgment of character. According to exit polling, the No. 1 issue this year, cited by 22 per cent of respondents, was the candidates' "moral values." (The economy was second at 20 per cent, followed by terrorism and Iraq.) In American politics, that's code for a hodgepodge of social and ethical quandaries including abortion, same-sex marriage and Janet Jackson's Super Bowl exhibitionism. But if the concerns are varied, the electorate's feelings about who has the rectitude to deal with them aren't. Eight out of 10 voters who shared those anxieties, or roughly 18 million people, cast their ballots for Bush—a crucial advantage over Democratic Senator John Kerry in an electoral college battle that came down to one swing state, Ohio, and a margin of just 136,000 votes.

The surprising voter obsession with domestic morals in a time of foreign threats and wars is an unqualified victory for Republican strategists and their decision to tack hard toward the right of the political spectrum. In 2000, Bush ran on a platform of "compassionate conservatism," seeking to enlarge the GOP tent by courting Hispanics, African-Americans and gays. He lost the national popular vote but eked out a controversial 537-ballot win in Florida to take the presidency. Karl Rove, his chief campaign strategist, attributed the near-death experience to four million traditionally Republican, evangelical Christians staying away from the polls, and he set about luring them back to the fold. His handiwork is seen in the increasing public emphasis over the last four years on Bush's religious faith, and the President's vocal opposition to stem-cell research.

NEXT DAY BLUES

On Nov. 3, the *San Francisco Chronicle* conducted an online poll asking readers to pick which of three inspirational songs they were humming that day.

God Bless America	16%
Heaven Help Us All	33%
O Canada	50%

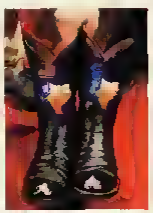


Bush formed a bond with voters in the traumatic days after 9/11; many supporters (here, in Texas) tuned out information that didn't favour him

FAITH AND T-SHIRTS

In Crawford, the outcome was never in doubt—victory doodads went on sale election morning

THE FOLKS of Crawford, Tex.—much like their neighbour, the brush-clearin', God-fearin' President George W. Bush—aren't given to doubt or indecision. On election morning, not a half-hour after the President cast his vote at the local fire hall and took off for a last-ditch attempt to sway wayward souls in that troublesome state of Ohio, Larry Nelson was already folding neat stacks of white T-shirts. They read "BUSH WINS 2004 Victory." Never mind that voting had just started, or that Democratic candidate John Kerry took another day to concede. "Positive thinking," says Nelson, manager of Crawford Country Style, one of four souvenir and doodad shops that have opened since Dubya became president. Two different styles of coffee mugs also celebrate Bush's second term—all ordered a week before voting day.



Bush didn't get the boot, but an editor did

Faith—Crawford has it in abundance. There are five churches serving 705 people, and a restaurant where the strongest drink is Dr. Pepper. There's a stand of feed elevators at the railway whistle stop, a rock quarry that's the main employer, and ranchland rolling off in every direction. When Bush, as Texas governor, purchased his 1,600-acre retreat outside Crawford in 1999, he found a piece of teetotal Texas that fit nicely with his faith-based world view.

To get to Crawford from Waco, the nearest city, you take the George W. Bush Parkway to the town of McGregor, and turn right, appropriately enough, "Before Bush was president and lived here, all of these buildings on this street were boarded up," says Nelson. Now stores are stuffed with "Western White House" memorabilia, from bumper stickers ("Texas: it's bigger than France") to cowboy boots embroidered with the presidential seal. At the Yellow Rose gift and gun shop, Teresa Bowdoin casts an eye over her inventory. "I've never had so much personally invested in how an election has come out before."



Nugent emerged from his ranch to play the national anthem at the election-night party

With a Bush second term assured, there's healing to do in Crawford and beyond. The election was a blood sport, no different than a game of the high-school football team, the only acceptable outcome a hometown win. Still, it's a puzzlement to some that the stakes are sufficient for a motley collection of international media to slog through the shoe sucking muck of a rain-soaked voting day. "What does it matter to them?" asks Bowdoin. "Is it such an important election worldwide?"

In the view from Crawford, the world is a collection of those for or against the President's war on terror. "There is only one dream, the American Dream," says rocker and rabid conservative Ted Nugent, who shambled from his nearby ranch to the election-night bash at the Crawford Community Center. "Has anybody heard of a French dream?" he asks. "What would that be—white flags?" Canada, perhaps fortunately, is a barely noticed blip on the conversational radar, a land of vague good intention, deficient firepower and decent fishin'.

In Crawford, dumping a wartime president was seen as an almost unthinkable breach of faith. The line between disloyalty and dissent blurred to the point where the local newspaper was run out of town last month after a long and thoughtful editorial in the aptly named *Lone Star Iconoclast* endorsed Kerry. Publisher and editor Leon Smith, a soft-spoken man of loud opinions, sits in exile in the careworn offices of a paper he also runs in Clifton, some 30 km away.

He expected the endorsement might annoy a few advertisers or cost a subscription or two. Instead, a paper with perhaps 1,000 readers generated 5,300 letters and emails by election day. Some offered praise, others threatened harm or urged that the paper be driven out of business—a real possibility, Smith concedes. Stores no longer sell the *Iconoclast*, let alone advertise in it. He's being called a traitor for exercising, in the President's hometown, one of the freedoms that U.S. troops are fighting for in distant Iraq.

The editor, like Kerry in his concession speech, hopes the country can reunite with the election over. But, Smith adds, "I'm not sure what that will take." It would make the topic of a meaty editorial, if anyone in Crawford had a mind to read it. KEN MACQUEEN

SHANNON STAPLETON/REUTERS
PREVIOUS PAGE: RON EDMONDS/AP PHOTO

RON HEFLIN/AP; JERRY LARSO/WACO TRIBUNE HERALD/AP



The evidence was on Kerry's side, but he couldn't clinch the deal with the public

JIM YOUNG/REUTERS

and so-called "partial birth" abortions.

Party strategists also fought hard to make same-sex marriage a hot-button issue in the 2004 campaign, throwing the weight of the Oval Office behind calls for amendments to the national and state constitutions limiting matrimony to a man and a woman. Republicans managed to put the marriage issue on the ballot in 11 states—including hotly contested Ohio, Michigan and Oregon—in hopes of motivating religious voters. The ploy appears to have worked, with all 11 amendments passing, often by huge margins.

Matt Daniels, president of the Alliance for Marriage, a national umbrella group opposing same-sex unions, says the issue drew broader support than just evangelical Christians, but freely admits the Republicans piggybacked to victory. "That is intelligent political strategy. That's how democracy works," he said from his Washington office. But *realpolitik* comes with a price. Traditional marriage forces will now be looking for Bush to deliver on the promise of a federal amendment. "I don't believe we will have to hold the President to account—he will do the right thing," says Daniels. "Our chances of success have never been better. But it's going to be a race between the amendment process and the federal courts."

It's a cost that Bush might happily pay. While the electoral college win may have been narrow—286 to 252 (both candidates needed Ohio's 20 votes to put them over the magic number of 270 to win the presidency)—Bush's victory was nonetheless impressive. In an election that saw massive voter registration drives by the Democrats, and 10 million more ballots than were cast in the 2000 contest, the former Texas governor handily won the popular vote, 59,458,641 to Kerry's 55,949,384, with some votes still being counted. Bush attracted the votes of more women, seniors, Latinos, African American and city dwellers than he did in 2000, and evenly split the Catholic vote with his challenger, a former altar boy. His party increased its majority in the Senate and the House of Representatives. And, despite his troubles at home and abroad, the President held serve in all the states the Republicans won in 2000, excepting tiny New Hampshire.

The U.S. electoral map now has a vast, unbroken swath of Republican red states across the south and up through the western heartland all the way to the Canadian border. The ever-bluer Democrats find themselves pinned down on both coasts, and in the "rust-belt" states along the Great Lakes, wondering how their party has seemingly lost its ability to connect with the concerns not just of religious voters, but much of rural and small-town America. Kerry and his running mate John Edwards spent months criss-crossing the country, driving home their twin themes that Bush had misled the nation into a foreign war with no plan to win the peace, and bungled economic affairs at home. The evidence was on their side, the party's base was energized, their gaffe-prone opponent appeared vulnerable.

Yet somehow, despite the real doubts about Bush's record and competency reflected in opinion polls, the Democrats were unable to clinch the deal with the American public. Easily tagged as a windsurfing Boston Brahmin, Kerry tried to match the President's good-ol'-boy bonhomie, but the barn coat and goose-hunting expeditions just made him look like a poseur. Exit polls suggested that those voters who cared most about leadership, trustworthiness and clear stances on the issues overwhelmingly chose Bush. The minority who cast their ballot on the basis of the candidate's intelligence, or concern for people, flocked to Kerry.

Part of the answer, says Steven Kull, a University of Maryland political psychologist, is the bond Bush formed with voters in the traumatic days and weeks after 9/11. "He really struck a chord with a large segment of the population," says Kull. "These people now have an almost unshakable confidence in his values and his resolve." In a series of polls conducted in the run-up to the election, Kull found many Republican voters were simply tuning out information that didn't favour the President. Fifty-seven per cent of Bush supporters assumed most people in other countries supported his re-election. Only 31 per cent recognized the majority of the world opposes the war in Iraq. Despite the results of independent inquiries and a blizzard of media coverage, 72 per cent continued to believe Iraq had weapons of mass destruction, or a major program for developing them. Another discredited myth—that Saddam Hussein was providing substantial support to al Qaeda—was believed by three-quarters of Bush voters. "Many people simply take their cues from him or his administration," says Kull. "They are not motivated to seek outside information."

The spike in attendance of religious services after 9/11 has receded, but it seems that many Americans have found increasing comfort in their faith during these times of trouble. Bush's personal ease with the culture and language of the estimated 43 per cent of the U.S. population who regularly visit houses of worship (by comparison, the Canadian figure is estimated to be between 26 and 30 per cent) is part of his appeal to religious voters. He is, after all, a reformed sinner, saved from the bottle at the age of 40. And in sharp contrast to Kerry's complex, technocratic discourses, the Republican President's willingness to reduce thorny political issues to Biblical principles helped solidify the view that he was the more "moral" candidate. "When people feel anxious or threatened, it intensifies the pull of that simpler framing of issues, like the war against terror being a 'battle of good and evil,'" says Kull. An irresistible combination for the millions of Americans who feel their society is under siege both from within and without.

EMBOLDENED
by his victory, Bush has vowed to continue to 'spread freedom' throughout the Mideast

Emboldened by the scope of his victory, Bush has already sketched out an ambitious agenda for his second term. In a post-election news conference late last week, he vowed to continue American efforts to "spread freedom throughout the greater Middle East." At home, Bush has set his sights on a fundamental reworking of the tax system, and a controversial promise to allow Americans to divert part of their Social Security contributions to individually directed investment accounts. "I earned capital in the campaign and now I intend to spend it," Bush said. "And I'm going to spend it for what I told the people I would spend it on."

Other fundamental changes loom on the horizon. William Rehnquist, the 80-year-old chief justice of the Supreme Court, is

IN THE LAND OF THE GIANTS



WHEN PROFESSOR JACQUES BEAUVAIS FOUNDED CANADA'S FIRST NANOLITHOGRAPHY LABORATORY TEN YEARS AGO, HE HAD A STRONG INKLING HIS RESEARCH THERE WOULD BE IMMENSELY FAR-REACHING. SETTING A NEW WORLD STANDARD FOR SEMICONDUCTOR MANUFACTURING WAS JUST A STEP AWAY... A STEP HE'S NOW POISED TO TAKE

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ill with cancer, and there is speculation he may soon step down, creating the first vacancy on the top court in more than a decade. That departure, and the anticipated retirement of several other justices, would offer Bush the opportunity to tilt the court's ideological balance further to the right—especially given the increased Republican hold on Congress. Many conservatives have long thirsted for such a change, and liberals fear it would encourage efforts by anti-abortion groups to overturn *Roe vs. Wade*, the decision that gave women the right to choose.

Gil Troy, a McGill University historian who specializes in presidential politics, says he sees little indication that Bush is about to moderate his approach. "When he came in after the close results in 2000, he didn't govern with an asterisk, he went whole hog. And that just ended up helping to create an air of legitimacy around him," says Troy. "With an even bigger win, there's no compelling reason for him to change course."

The deep divides—religious, racial, geographical, financial—in the American political landscape are also unlikely to be bridged over the course of Bush's second term. Troy sees similarities between the present and the election cycles of the 1880s and '90s, when the U.S. endured another series of tight, nasty battles. At that time, party affiliation was written in stone by things like family ties, your school, or religious denomination. Now it appears just as unchanging, if for different reasons. "There's a calcification happening," Troy says. The Democrats, now certain that the JFK/Massachusetts magic no longer works, will have to return to their only viable option—a Southern centre-right candidate, like Bill Clinton, who can appeal not just to the party base but heartland, blue-collar voters as well.

With the focus of the next four years already so firmly trained on domestic and foreign battlegrounds, there seems little chance that Canadian concerns—like softwood lumber and beef—are going to be any more of a priority for Bush in his second act than they were in his first. Prime Minister Paul Martin placed the obligatory congratulatory phone call last week, and extracted a promise from Bush that he will finally make a long-delayed state visit to Canada. But while the economic ties remain strong, promises of a warmer political relationship are likely to remain empty rhetoric. Flush with victory, Bush is now free to return to his go it alone approach to international affairs. And Martin, locked in the perpetual plate spinning act of a minority government, can neither cozy up to America nor recoil in horror. The Prime Minister should count his blessings. Had John Kerry won, Martin might have been faced with a request for Canadian troops to help America extract itself from the quagmire of Iraq.



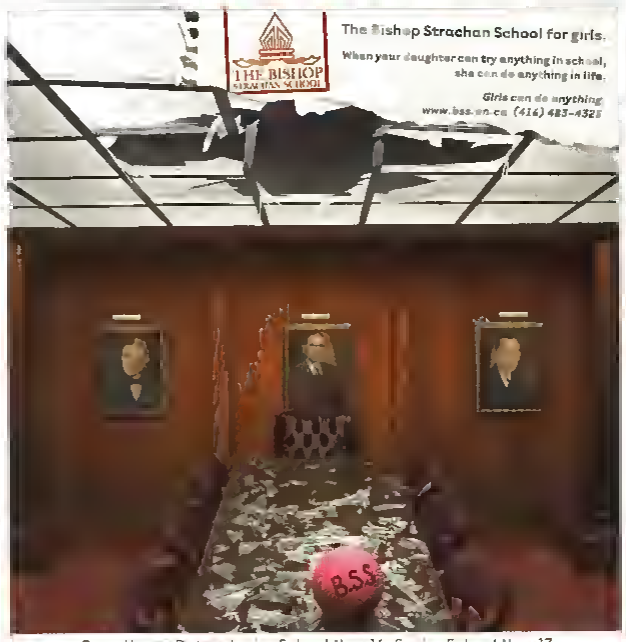
Promises of a warmer cross-border relationship may remain empty rhetoric

"I EARNED capital in the campaign,' the President said after the vote. 'and I intend to spend it

If the first Bush term is anything to go by, however, being relegated to the sidelines may not be such a bad thing. As an unnamed senior presidential adviser told the *New York Times*, "We're an empire now, and when we act, we create our own reality." The job of the rest of the world is to adapt. "We're history's actors, and you, all of you, will be left just to study what we do." Judging by last week's results, millions of Americans are perfectly comfortable with that arrangement. Polls suggest most Canadians, like majorities in almost every other country, aren't. The difference, it seems, is increasingly a matter of faith. M

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BUSH WON. THE WORLD LOST.

So did reason, the poor, gun control, the belief that the truth will out

THIS, TOO, shall pass.

The United States will muddle through, as it's muddled through before, because the idea of America, and the system that sustains it, is bigger and braver and more enduring than any single subpar president or collective brain cramp of the populace.

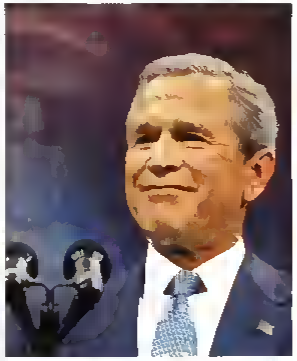
But it's so damn sad anyway. Once again, as Franklin Roosevelt put it, the only thing to fear was fear itself, only this time fear won. Bombast won, the Big Lie won. And of course George W. Bush won, with his staunch certainties in a scary world and his skilled retailing of "moral values" to an increasingly conservative base. Because this is what happened in the U.S. election with jobs disappearing, deficits running rampant, their kids being killed in Iraq saving the world from nonexistent weapons, Americans rushed to the polls to keep gays from marrying and women from having abortions. The culture war somehow trumped the Iraq war—evidence of an America not only fiercely divided but in deep denial.

The world, by the way, lost. So did reason, the poor, African-Americans, stem cell research, the air and water, gun control, the cause of basic competence, the belief that the truth will out.

I thought John Kerry would win and I was wrong. I thought so because the majority of Americans told pollsters they didn't like where the nation was headed. The ship of state was steaming straight for an iceberg, the captain too stubborn to change course—but in the end the people were too frightened or too distracted to change captains.

This, too, shall pass. Eventually, with who-knows what consequences.

Yes, these are very sour grapes. This is a sour day, and whoever won was bound to unleash as much wrath as rejoicing. It's time now for Americans to unite and yet it won't be easy behind this president, who divided to conquer. His isn't the America I grew up in, whose values I was weaned on. That America wasn't run for the rich, the corporate, the Christian. It didn't attack other countries without egregious cause, didn't torture foreign prisoners. It was a beacon, not a bully. Of course, that was the idealized America of history textbooks, of John Kennedy's Camelot and Ronald Reagan's "shining city on a hill." I was in Europe in the early '70s, during Vietnam and Watergate, and locals fulminated against the imperialists and baby-killers; Americans stuck Canadian flags on their backpacks. We've been pariahs before and lived to shine another day.



Will he change course now? Hard to imagine.

LARRY DOWNING/REUTERS

So this, too, shall pass. Maybe Bush, for all his stay-the-course rhetoric, will discover moderation in his second term. Maybe this man, so unreflective, unrepentant, captive of the neo cons, blind to what anyone else thinks or the price anyone else pays—maybe the president who never admits mistakes will, in the post-campaign calm, acknowledge he made some whoppers and try to put things right.

Maybe. We can hope. But then we've hoped before. When the Supreme Court installed Bush in the White House in 2000, many Democrats consoled themselves that at least he'd recognize he had no mandate, that he'd govern modestly from the centre until they could evict him four years later. Sept. 11 changed everything, including Bush. He was right in Afghanistan, calamitously wrong in Iraq; thousands killed for phantom reasons, a by then toothless dictatorship converted into a made-in-America gift to terrorist recruitment. And all along Bush pushed massive tax cuts for the rich, as if no wartime sacrifice were required.

Change now? After such a stunning validation of the Bush way? Hard to imagine.

Not that Kerry could have fixed Iraq either. It's unfixable, like many a colossal blunder. If he'd stepped up the assault he'd have been in the excruciatingly ironic position of living his own Vietnam era question: "How do you ask a man to be the last man to die for a mistake?" If he'd pulled out he'd have been the president who lost Iraq and the Republicans would never have let anyone forget it. This is the party, after all, that succeeded in tarring a bona fide war hero as too wussy for terrorist times. Day after day they twisted his words and record into strange shapes, like a clown turning a balloon into a dachshund. They made Kerry into a French poodle and, seemingly stunned, he was too slow to bite back, too equivocal on Iraq. He won three debates but never quite made the sale.

Now the Democrats will tear each other apart, the anti-war wing wrestling moderates for control of the party. And Bush will be left to slog through an Iraq morass of his own making. Thousands more Iraqis, Americans and others will be slain as the country slides inexorably into chaos. Big U.S. companies will keep scoring contracts to rebuild it. Opposing the war will be deemed unpatriotic. But life will go on. The two political camps, struggling for the soul of America, will go at it again, the titanic battle of 2004—at least for Democrats—a tormented memory.

This, too, shall pass. It's a comfort, however cold. M

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RUBLES TO BURN

The city's New Russians have gotten rich and they're happy to flaunt it, writes ALEXANDRE TRUDEAU

After reporting on the Chechens and then the republic of Georgia for Maclean's *(Oct. 11 and Oct. 25), Contributing Editor Alexandre Trudeau went to Moscow to assess the state of affairs in the Russian capital 13 years after the fall of the Soviet Union. This week's story is the first of a series*

GREAT CITIES are worlds apart. Moscow is no exception. Just as New York should not be taken as a good representation of the United States, one should not confuse Moscow with Russia. But among the deep ways that the country and its capital are in fact connected is the way Moscow is the display case for new Russian wealth. In a land where personal wealth was illegitimate until 15 years ago, all rich Russians are newly rich. In turn, the newly rich are called the New Russians, and nowhere else are there more New Russians than in Moscow.

Some roads out of the city lead to Russia, to interminable forests and ragged old towns. But others lead to a higher expression of the city, a new Moscow purer and cleaner in form that one accesses on slick, fresh tarmac surfaces crowded with luxury cars, passing along the way crisp, newly erected malls. Here are the roaming grounds of the New Russians. This is dacha land, cottage country, but not quite the rustic, quintessentially Russian dachas of old. Just as there are New Russians, these are new dachas.

Like the old ones, the new dachas are in the forest. But they are not perched on the edge of a wilderness, at once enchanted and threatened by those primeval woods, the place of fairy tales, wolves, Baba Yaga. Rather, they have encompassed the forest, commodified it into lots, and trapped it with an ever-expanding spiderweb of sleek roads. More and more, the forest is mere decor to Moscow's outgrowths. Many of the houses in these subdivisions have tried to capture the spirit of the dachas of old. But they have



Music producer Alibasov, here nibbling an ear at Club Slava, never has problems getting past the ruthless bouncers at any social gathering

expanded on the traditional concepts, with swimming pools and multiple-car garages. Others are fantastical creations of Greco-Roman inspiration, or art nouveau stylings. And all are fully equipped modern homes.

Dima Yakubovsky's dacha is deep within a compound surrounded by a huge metal fence, its gate guarded by militiamen draped in grey camouflage and armed with submachine guns. Dima procured the land several years ago and has since developed it, building dozens of homes, each in a different style. They are as of yet unoccupied, apparently Dima wants to give them away to his friends. Dima's dacha is reached through another security checkpoint. Two bodyguards, wearing white, red and blue track suits with "Russia" written boldly on the back, lead photographer Heidi Hollinger and me to the garden. Two young Orthodox priests, who have just blessed the whole property with holy water, join us along the way.

We sit down for lunch with Dima, his tall blond girlfriend, the rent-a-priests and the bodyguards. Dima is still a young man, in the early nineties, when he was even younger and as the Soviet Union was in its death throes, he made a fortune. How remains unclear, but he had to hastily leave Russia. After a jaunt in Switzerland, he ended up in Canada, buying a huge gated home in Toronto's opulent Bridal Path area.

Dima says he has mixed feelings about Canada. "I love Canada," he explains, "but Canada doesn't love me. Canadians are closed-minded—they couldn't appreciate my Russian values and ways. They didn't like the machine-gun turret I installed on my house. They were shocked that I drove around in a guarded motorcade. They hated the fact that I used to hire off-duty Mounties, have them wear their red uniforms and stand guard with Canadian and Russian flags." This spectacle went on for months. Finally, when somebody sloppily opened fire on his home one night, Canadian authorities asked Dima to leave the country. "I guess I offended Canadian sensibilities," he says, shrugging. "Anyhow, Russia is more fun. I am happy to be back."

LIKE the old ones, the new dachas are in the forest, but it's no longer the woods of fairy tales, wolves, Baba Yaga

After lunch, Dima has his heavies escort the priests, Heidi and me to the shooting range in the basement of the private police station Dima has built on his property. There, deep in dacha land, we all shoot automatic weapons. I later ask Dima what he actually does these days. "Real estate development?" I suggest. "I am a middleman," he answers with a sly smile. I also ask if he ever thinks about Russia's poor. "Everyone gets what they deserve," he says.

The crown jewel of Dima's estate is the church. Although still under construction, it is charming, with spires, onion domes and whitewashed facades. But how will it be put to use in this gated compound where Dima lives alone surrounded by subalterns? I ask him which community he has built it for. He snaps back, "You don't build a church for a community, you build it for God!"

Another dacha we visit, not far from Dima's compound, is a little less expansive but just



Trudeau takes target practice in the basement of Yakubovsky's private police station. The priests blessed the whole property.

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as extravagant. The owner is a former Soviet bureaucrat who struck it rich in the financial markets and is now enjoying worldly pleasures. The focal point is the elaborate gardens, organized into three sections: Japanese, Italian and French. They converge on a man-made pond with a sophisticated bath house on its shore. The host proudly leads us to a grotto beneath the French garden. It is a wine cellar, with a likeness of Bacchus carved in stone on the wall. As the host turns a hidden crank, red wine flows out of the wine god's mouth. Our host then directs us to the life-sized stone statue of a goddess. Her naked chest has three rows of breasts with brass nipples. The host demonstrates how, when sucked upon, each nipple releases a different kind of wine.

For their variety, audacity and lushness, I admire the New Russians' experiments in freedom, and try hard not to be straitjacketed by any Canadian sensibilities. But I am constantly under the impression that the paths of freedom have many dead ends.

IN MOSCOW PROPER, Bari Alibasov is my host for a few days. He owns a flat in a quiet, very posh downtown neighbourhood. Bari is anything but quiet. As I cross his threshold for the very first time, he scans me sternly, then asks in broken English: "You like . . . ?" Searching for the word, he thrusts his pelvis suggestively back and forth a few times to demonstrate what he means. Trying not to seem taken aback, I tell him yes. He then asks: "A lot?" I decide it's time to adopt a meeker position. "I have my limits," I say.

Bari doesn't really appreciate limits. For him, freedom is in giving and receiving pleasure, warmth and love. He is a famous pop music producer, the man behind Russia's biggest boy band, Nana. In what may be the most exclusive city in the world, where every social gathering place has foreboding bouncers who ruthlessly decide who gets in, Bari glides through Moscow unhindered, never staying long anywhere, soaking up the spectacle and energy of one spot, moving on quickly to the next.

His apartment is a series of lushly decorated little boudoirs. Mirrors abound. Of late, Bari has become passionate about photography, more specifically, fantastic and lewd photography. The walls of his apartment are covered with bizarre, carnal imagery. But behind the extravagant facade, Bari is a workaholic, constantly booking shows for his bands, constantly promoting his artists.

Just before my arrival, Bari—who is an ethnic Kazakh, in the middle ground between East and West—returned from a stint in China. Now, he is completely enamoured with the place. At a dinner where sushi is served alongside sausage, one of his guests is a deputy mayor from a Siberian town on the far eastern Amur River, across from a big Chinese town. Again and again, Bari professes his love for China. "I wish Moscow was a suburb of Beijing," he says. "Wait 50 years," I tell him. Laughter rings out, some wholehearted, some nervous.



Yakubovsky (right) has built a compound with dozens of houses—where nobody lives

Another of my New Russian friends is Andrei Dellos, a restaurateur extraordinaire of distant French ancestry. Andrei, who speaks impeccable French, opened his flagship restaurant, le Cafe Pouchkine, in the mid-'90s. The decor was so authentic-looking that people could barely believe he had built from scratch. Even the toilets in the basement have the look of elegantly restored facilities, down to the lumpy plaster beneath a fresh paint job and brass fixtures seemingly worn by decades of hand contact.

I ADMIRE the New Russians' experiments in freedom, even though those paths may have many dead ends

The Cafe serves Russian food prepared in accordance with French sensibilities. Thus the borscht is made with smoked duck, and the piroshki with *cervelle de veau*—calf brains. The Café, and Andrei's half-dozen other restaurants, seek to re-establish contact with the refinement of czarist Russia, obliterating 80 years of Soviet austerity as if they never occurred. He has even opened a fast-food chain serving affordable but authentic Russian food. Andrei tells me one of his most regular patrons is Ludmila Putin, the president's wife. "She dines alone and never takes her sunglasses off so as not to be recognized," he says. "We pretend we don't."

Andrei is currently building his newest restaurant in palatial, Oriental style fashion. He gives Heidi and me a behind-the-scenes tour of his workshop. Sculptors and carvers are fabricating intricate pagodas, dragons and maidens. There are shelves full of them—the bas-reliefs will decorate the corner mouldings of his high ceilinged dining halls. An ornate carousel will grace the centre of the largest room. It is New Russia doing Old Russia doing France doing China.

Andrei seems to have figured out a secret: for the moment, the freedom of the New Russian is best felt in its display. As such, it may still be something of an illusion, but the more intricate and authentic, the more delicate and layered the illusion, the more credible and satisfactory it is. After all, through its history Russia has served its people more suffering and servitude than freedom. It still sits with the Russians as a rare thing, a luxury item, a fleeting *folie*—something to be enjoyed, but also mocked and mistrusted.



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THE TRADES GAP

Need a mason or plumber? Get in line—and hope new recruitment drives work fast.

DOMENIC MASELLIS opens the passenger door of his gleaming white truck. "Step into my office," he says. Masellis is taking a break from a job installing windows in a house on a quiet, sun dappled street in west Toronto. It's a bungalow that's having a second floor added on, as is another just three doors down. With nine new windows and a patio door to install, this is a quick job for Masellis, his brother (and partner) Felix and their crew of two. He'll be in and out in a day and on to the next gig. These days finding work isn't a problem, what keeps him up at night are worries that he's letting jobs slip away. Masellis, who's been in business for 18 years and gets all his clients by word of mouth, says even when he bids on a job, he often doesn't have time to follow up. The only way to handle the demand would be to expand—but it's tough to find reliable people to take on the extra work. "If you get bigger, the headache just gets bigger," he says. "Then you have to take four Advil instead of just two."



Masellis says good help is hard to find. 'The headache just gets bigger.'

Masellis is typical of many tradespeople—he's so busy he's forced to juggle jobs. In a two step with the soaring housing market, demand for drywallers, carpenters and electricians, among other skilled trades, has been growing almost everywhere in Canada. Yet young people, encouraged to pursue higher education, continue to turn their backs on the construction trades—despite good pay, almost guaranteed work and the chance to be your own boss. While the number of workers in the sector is growing—in fact, it recently passed the one-million mark—it's not keeping pace with demand. What's more, when the economy is strong, many tradespeople opt to go into the better-paying, longer-lasting commercial or industrial jobs, leaving those serving homeowners with more work than they can handle.

What's a bonanza for tradesmen like Masellis adds up to so much misery for people like Michelle Harries. She is tantalizingly close to wrapping up a $100,000 reno job started last April on her small home in Calgary. "We're still waiting for the last finishing touches," says the 34-year old mother of three. "But people seem to have forgotten about us."

While complaints like this are commonplace, the industry is only beginning to address the issue. In fact, not everyone in the trades is ready to concede a problem. "Now *there's* a myth," exclaims Toronto electrician Gary Bain. "There isn't a shortage of labour. What there is a shortage of is people who are willing to be underpaid to do what's actually unionized work." Bain, a staff electrician at the University of

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Toronto, recalls the real estate crunch of the early '90s. "From 1991 to 1996, there was no construction going on and probably half the people were out of work," he says. Today, what consumers call a shortage is simply steady work for trades workers, he says.

"We don't consider there to be a labour shortage crisis," echoes Michael Atkinson, president of the Canadian Construction Association (CCA). But while there's "no short-term panic," Atkinson is concerned by the slow trickle of young people entering the construction trades. Part of the problem is that, traditionally, tradesmen (they are predominantly men) came from immigrant populations, but they want something better for their kids than the back-breaking work and long hours they've endured. And, so far, newcomers to Canada aren't picking up the slack. Unlike the Italian, Portuguese or Polish workers of a generation ago who came with a trade, new immigrants tend to have more education and to seek white collar jobs. The result is an aging workforce—the average highly skilled tradesperson is 48—and Atkinson fears that in a decade or less, even the steadier jobs in non residential construction will be tough to fill.

Whether or not there's a panic, the pinch is out there, and it's being felt. Carolyn Robinson owns a commercial general-contracting business in Toronto. "August is always a very busy time of year," she says. "This year, we managed to meet our deadlines, but it was very tight because our trades were so stretched." Some contractors say they've had to apologize for unfinished work or poor workmanship due to the shortage of skilled people. When Robinson needed work done on her own property—the roof of her 150 year old townhouse needed repairs—being in the business didn't help. "I am proof positive that being the owner doesn't have any pull," she says. "I called at least four different companies and had *no* response." She managed to get a quote from a roofer who was working on her neighbour's house. "I knew it to be a very inflated price, but I told him to go ahead. This was last June."

MacLeod graduated last year from a new high school training program in the trades

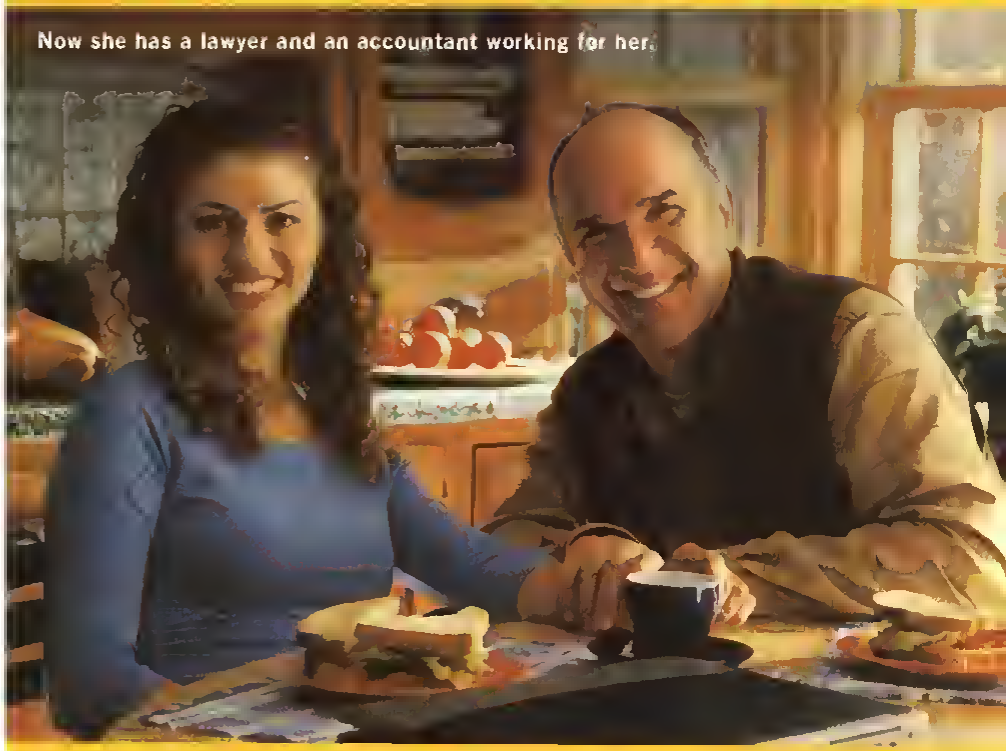
For Nigel Dean, a contractor in Toronto, the pinch means he can pick and choose his jobs. In business for 25 years, Dean typically does residential additions involving full renovations. "I'd rather not do Forest Hill or Rosedale," he says of Toronto's most exclusive neighbourhoods. On those projects, there's usually an architect, a designer, an interior designer—"three or four largely unnecessary layers," he says, quickly adding, "I'm not dissing architects or designers, but if they are driven or nuts—and a lot of them are—they think you're in *their* movie." But Dean knows he may not always be able to be so picky. "If interest rates go up or housing starts go down, there'll be more competition for the work."

Not only is the industry very sensitive to changes in interest rates, says Michael McCracken, CEO of Ottawa based economic consulting firm Informetrica Ltd., it's also both highly cyclical and highly mobile. Most Canadians have one place of employment, and remain there even when they start a new project. Construction workers, on the other hand, migrate from site to site—and tradespeople can jump from one sector to another, depending on which is hiring. In this age of corporate consolidation,



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the business is also unusual in that it largely comprises outfits of three or four people working for themselves. All of this makes the industry hard to track, and tricky to promote.

The crunch in tradespeople available for residential work should come as no surprise, says McCracken. The amount of money Canadians have spent renovating their homes will jump to an estimated $24 billion in 2004 from $19.4 billion in 2001, up 20 per cent. But the real boom has been in new construction: between 2001 and this year, spending on new houses is up 45 per cent, to an expected $33.4 billion in 2004. That's keeping the trades more than busy. "The renovation market has been sucked out by new housing," McCracken says.

And the labour shortage is probably going to get worse. Over the next 10 years, McCracken expects $1.7 trillion to be spent on construction, from houses to roads to office towers, that's more than one and a half times the amount in the previous decade. Using these estimates, McCracken says the industry will need 100,000 new workers by 2013. That may prove challenging. Last year, for the first time there were fewer people under 25 in the resources sector (which includes construction) than over 55. "That means in the next decade more people will be retiring than have recently joined," he says.

CCA's Atkinson blames parents and high school guidance counsellors for the limited number of young people interested in picking up a trade. "There is this belief out there that construction is a dirty, unsafe, no-brainer, dead-end occupation," he says. That's wrong, he adds. It takes training—four years after high school for most specialties—to become a carded tradesperson, and the worker can make good money. It's not farfetched, he says, for a 25-year-old electrician to be earning $100,000 a year. "Our educational system has let down those kids. As a society, we should be concerned."



Robinson, a general contractor, has yet to get a roofer to fix her own home.

To turn things around, ads promoting trade apprenticeships are now running in movie theatres, says the CCA, and several provinces have begun taking the issue seriously. In 2000, for example, New Brunswick reintroduced a training program in construction trades at the high school level; there's now a waiting list. For one semester, enrolled students spend half of each school day learning how to weld, assemble scaffolding or lay bricks. "One of our strategic goals is to ensure our province has a well-trained and adaptable workforce," says Margaret-Ann Blaney, minister for training and employment development. "This is a practical approach driven by the needs of the labour market."

Adam Elder, a Grade 12 student at Simonds High School in Saint John, is spending his mornings at the Carpenters Training Centre. In a few weeks, Elder, who intends to have his own residential building firm, will begin a co-op placement. Matthew MacLeod took the course last year. Now a high school graduate, he's in the first year of a four year program, which includes an apprenticeship, to become a licensed carpenter.

This sort of training, supported by industry, unions and government, wasn't available when Masellis, the window installer, was a kid. He learned on the job, with his father. And after three years in college and a stint as a bookkeeper, he realized what these kids already know: he likes to work with his hands. But he has a word of caution for Elder and MacLeod: "You worry when you don't have work. You worry when you have too much," he says. "It's feast or famine—there's no happy medium."

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RENO CONFIDENTIAL

If you've been there, you know: finding electricians, carpenters or plumbers who will quote on, sign up for and actually execute your new bathroom or family-room addition is a tricky task these days. If you're thinking about renovating, read these testimonials—and think again.

"We have a very strong marriage, but the renovation was hard on us. You feel incredibly vulnerable because you're paying vast amounts of money—more than you can afford—and you are at the workers' mercy. I'd stand up to the tradespeople and give them a piece of my mind, and my husband didn't back me up. It made me wonder: is this who I want to be married to?" —*Ann, Toronto*

"To accommodate a new addition, part of our roof had been removed. All that was left protecting the dining room was the attic subfloor covered with a tarp. Workers were supposed to come the next day. But for two weeks they were delayed, right when we had record rains this summer. I'd just had a baby, and on the day I got home from the hospital, water was streaming down into the dining room. The floor—it's hardwood—was covered with puddles. And then big globs of the ceiling started coming down. I just sat on the sofa with my baby and cried." —*Michelle, Calgary*

"It's a real challenge to find someone to even talk to you, let alone quote on the work. Tradesmen can cherry-pick the most profitable jobs, bidding sky-high and then scrambling to fit in those who do accept their bids." —*Bruce, Victoria*

"We're trying to go by word of mouth for a bathroom reno, and my former boss has someone he'd recommend, but he's holding out on passing the name along until all the work is finished in his *own* house, for fear my work would bump his." —*Aline, Ottawa*

"Before we moved, we tried talking to contractors about an addition on our last home. We found most either thought it was too small or they quoted us an outrageous price. In the end, we bit the bullet and bought a bigger house rather than go through the hassle." —*David, Toronto*

PHOTOGRAPH BY PETER BREGG/MACLEAN'S





NO MORE 'NORTHERN PESO'

Anyone still want to dump the loonie? Let's remember this moment.

ON APRIL FOOL'S DAY 2002, Canadian political writer Pierre Bourque posted an item on his website claiming that then-finance minister Paul Martin was quitting politics to pursue his life's true passion: raising "handsome Fawn Runner ducks" and "Charolais cattle." That morning, the loonie dipped sharply and Reuters reported that the prank may have had an impact on the currency market. Bourque got a nervous email from the Department of Finance, good-naturedly urging him to remove the item, which he did.

Bourque started out to tell a joke and ended up exposing another the laughable weakness of the Canadian dollar at the time. The whole affair prompted a new round of wisecracks about the "northern peso." Only four months earlier, the loonie had hit its record low of US61.8 cents, and though it's debatable whether Bourque's prank really had an impact in the market that day, the fact that finance officials thought it might said volumes about the sorry state of our currency.

At times like those, the loonie becomes the focus and personification of our national inferiority complex. And right on cue, people revived the notion of abandoning the loonie and adopting the U.S. dollar. It happens every time our currency goes for a swoon. Several prominent economists said a currency union between the world's biggest trading partners was inevitable, and surely preferable to the embarrassment of seeing our dollar shunned on world markets. They said the dollar's volatility was a barrier to trade, and that we risked being left behind as the world divides into trading blocs.

Scary stuff. So who wants to give up the Canadian dollar now? The loonie recently closed above US82 cents, a 12-year high, and many investors are predicting it'll keep climbing. Not surprisingly, calls to adopt the greenback have gone silent.

But don't let that fool you. The debate isn't dead, it's just sleeping. Sooner or later, the Canadian dollar will lose altitude again, and when it does it'll be hard to hear yourself think over the tumult and wailing about Canada's diminishing place in the world. The urge to latch on to the U.S. dollar will re-emerge, and the lessons of the past couple of years will be forgotten. So let's strike while the loonie is hot and commit a few things to memory.

Remember this, for example: the value of Canada's dollar is a real-time, worldwide report card on the country's fiscal management and economic prospects. If global investors think you're spending yourself into oblivion, they dump your dollar. If they think you're in line for healthy economic growth, they buy your currency. Thanks to a decade of fiscal prudence, balanced budgets and debt reduction, Canada gets high marks from international lenders. By adopting the U.S. dollar we would throw all that away, removing a critical check on Ottawa's spending and eliminating a major incentive to balance the budget. There's a long list of countries that have gotten into trouble this way, and the consequences are devastating.

SOONER OR later our dollar will lose altitude, and when it does it'll once again be hard to hear yourself think over the wailing about Canada's diminishing place in the world

Besides, these days I'd sooner ask my local butcher to remove my appendix than put Canada's fiscal planning in the hands of Washington policy makers. The U.S. is struggling under a crushing budget deficit and an economy that refuses to catch fire despite years of rock-bottom interest rates. The day we adopt their currency, a long list of fiscal headaches—from Bush's unaffordable tax cuts to skyrocketing debt—suddenly becomes *our* problem. With no voting rights, we'd just have to sit quietly in the back seat and hope we don't drive off a cliff. No thanks. If we're going to get dragged into the soup by ill-advised tax reductions, personally I'd at least like to get the tax break.

Even if you don't care about the quaint old notion of economic sovereignty—and surveys suggest most Canadians do care—adopting the greenback would make sense only if our two economies were practically identical, and they're not. This point was established clearly in a 1999 Bank of Canada study showing that the U.S. and Canadian economies react differently to global events.

The developments of the past few years have only confirmed that conclusion. Canada is still heavily reliant on basic commodities: metals, minerals, lumber and oil. Thanks to the voracious demand of developing nations, especially China, those resources are red hot. The U.S. buys a lot more than it sells, but Canada is just the opposite, and so this country stands to cash in big on China's economic emergence. That's why renowned investor Jim Rogers, who co-founded the Quantum Fund with George Soros, is hugely bullish on the Canadian dollar, and thinks it could go to US$1.06 or higher over the next few years.

A year ago the prospect of a rising dollar terrified many Canadians, who believed exports would be devastated by a rising loonie. But it turns out our economy and exports have continued to grow at a relatively healthy pace despite the dampening effect of our stronger currency. As an added bonus, we don't have to listen to so many condescending jokes from American tourists about our multi-coloured Monopoly money.

So, next time you head across the border, don't bother exchanging your cash before you leave. It'll be good for your sense of patriotism when you put that bright red $50 on the counter and watch the store clerk's eyes light up at the sight of a stable currency. C'mon, it never hurts to dream. M

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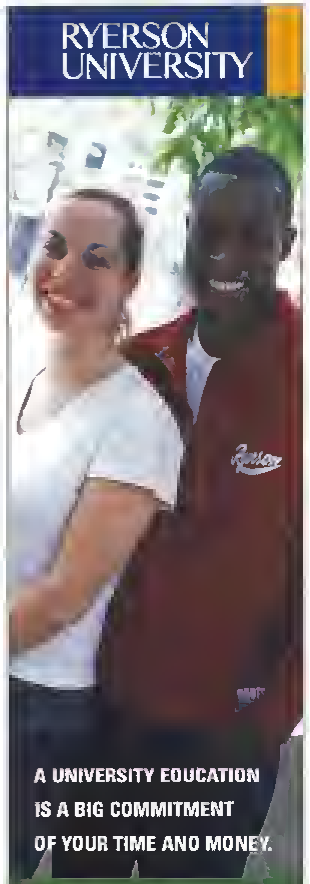


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ON OSAMA'S TRAIL

Amateur sleuths scour the Web for jihadist plots. Sometimes they even find them.

ON AN UNCOMMONLY hot day in late September, the bucolic town of Norwood, Ont., population 1,300, seems light years away from suicide bombings and jihad warriors. But appearances can be deceiving. A few blocks south of Norwood's only stoplight, Brent Astley is hunting terrorists. A portly man with broad features and thick hair, Astley is the director of 7-Seas Global Intelligence, a small group of international amateur detectives who spend their days scouring the Internet for al-Qaeda's virtual fingerprints. When they find something suspicious—a hunt on a message board of a planned attack or the latest address of a fly-by-night militant website—they tip off the authorities.

Yes, it sounds a bit far-fetched, especially when you first meet the 44-year old unemployed software developer. He looks decidedly rumpled in wrinkled shorts and a short-sleeve shirt. He plies his trade on the second floor of his house (which he rather generously calls a fixer upper), on a laptop so well-used the original black veneer has worn away to reveal the plastic underneath. But, again, appearances can be deceiving. Astley sinks into a ratty chair and nods at a website on his computer screen. "This is an individual who goes by the Net handle of Abu Banan," he says, scrolling

Astley in his war room. 'People would be dead except for what we've done.'

PHOTOGRAPH BY SANDY NICHOLSON

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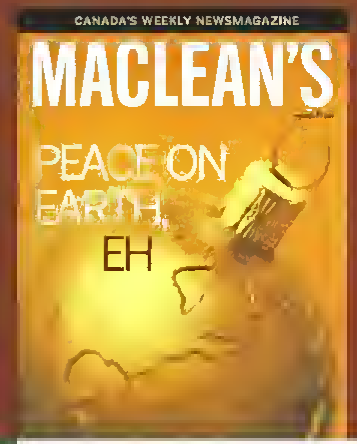
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ROGERS

down the page "He's been called al-Qaeda's webmaster, and he's right here in Canada."

In the aftermath of Sept. 11, the Internet has emerged as a major weapon for extremists. Every known terror group uses it to expound ideology, recruit supporters and raise money. In response, a small but growing subculture of citizen warriors has volunteered to staunch this proliferation, fashioning themselves as resistance fighters rising up against a hostile force. Not surprisingly, most make little impact on the war on terror; what's noteworthy is that some actually have. In the two years since it formed, 7-Seas has helped put one extremist behind bars, and claims to have helped foil other terrorist plots. Astley says he maintains regular contact with intelligence agencies in Canada and the U.S., and last month spent a day lecturing members of a federal agency on 7-Seas' terrorist-tracking methods.

The inescapable question: why does he do it? "The seriousness of the threat became pretty obvious when I realized 9/11 was going to shape the rest of my life and my kids' life," says Astley, a father of three. "My dad was in World War II, my grandfather in World War I. Well, this is my war."

THE SIGHT has become tragically familiar. A man dressed in an orange jumpsuit kneels in front of kidnappers whose faces are covered with black ski masks, and pleads for his life. Then, a gruesome death by beheading. In the era of 24-hour news channels and weblogs, terrorists find it's no longer enough to dump a victim's body on the roadside and claim responsibility with a call to a local news station. Now, they want to control the message by distributing videos of their victims' final moments over the Net.

This "theatre of terror" is the latest gambit for gaining attention, says Gabriel Weimann, a communications professor at University of Haifa in Israel, who's been studying extremists' use of the Internet for seven years. "It used to be that hijacking a plane and holding passengers hostage did it," says Weimann, who has monitored more than 4,000 sites linked to militant groups. "Today it's executions. It is so dramatic, it is so cruel, nobody can ignore it." The videos also serve as recruiting tools, encouraging sympathetic Arabs to rise up against Western invaders, and as means of spreading fear among the enemy. "You can post the videos and they can be downloaded worldwide in seconds," says Weimann. It's a strategy tailor-made for the digital age.

'THEATRE OF TERROR'

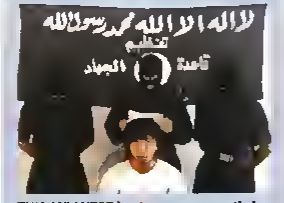
Beheading videos posted online have become militants' key propaganda tool



PEARL'S beheading was the first execution distributed on video and online



BRITON Bigley speaks to the camera; moments later, he is decapitated



THIS JAPANESE hostage was recently beheaded by Iraq's leading terrorist group

Even before the wave of graphic videos, Muslim extremists had been using the Web as a virtual *madrassa*, providing disciples with manuals on how to make bombs, kidnap people and research targets. Since late 2003, for example, al-Qaeda has been publishing the online magazine *al-Battar*, which means "holy sword." A recent issue discusses a speech by Abu Musab al-Zarqawi, the most feared insurgent in Iraq, while the instructional section offers part two of a lesson on the use of pistols for assassination.

Intelligence agencies maintain constant watch over the Net, knowing that a surge in traffic or an encrypted message may hold the key to a plot. Intercepted emails led investigators to *Wall Street Journal* reporter Daniel Pearl's killers. And, in July, U.S. authorities alerted Italy after a third cryptic message appeared on a website known to be closely watched by Islamic terrorists. "The Internet obviously gained prominence after the invasion of Afghanistan," says Special Agent Kim Jensen, an FBI counterterrorism expert. "For the most part it's filled with propaganda and hyperbole, but once in a while something of substance comes along."

In December 2003, for example, an analyst at the private Norwegian Defense Research Establishment discovered a document entitled "Jihadi Iraq, Hopes and Dangers" on a Yahoo! forum called Global Islamic Media. It laid out a strategy for breaking up the U.S.-led coalition by directing attacks at America's allies, particularly Spain, which, it argued, could not tolerate major hits in the run-up to an election. "If its troops still remain in Iraq after these blows, the victory of the Socialist Party is almost secured, and the withdrawal of the Spanish forces will be on its electoral program." Two days before the March 2004 election, several bombs detonated in Madrid's Atocha train station, killing 191 people. Although the online paper dealt more with attacking Spanish soldiers in Iraq, its prediction came true nonetheless: the Socialists swept into power and pulled troops out of Iraq.

Stories like these spur amateurs to pore over forums, sites and blogs with the dedication of public avengers. And, on rare occasions, they hit pay dirt. Astley's group operated in secrecy ever since its eight members—two in Canada, four in the U.S., and one each in Singapore and Australia—met on a current-events message board after 9/11. That was until 7-Seas nabbed its first terrorist. National Guardsman Ryan Anderson, a 26-year-old Muslim convert, wanted to join al-Qaeda and fight in Iraq against the U.S. He left a posting on a website under the name Amir Abdul Rashid and was contacted by someone he thought was an al-Qaeda associate. Actually, it was Shannen Rossmiller, a small-town Montana judge and member of 7-Seas, posing as a Muslim extremist. It took four weeks, but Astley and Rossmiller tracked down "Amir Abdul Rashid" (see sidebar next page). In January, the group passed the information to the FBI, which arrested Anderson after a sting operation during

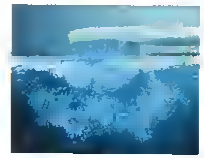
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which he offered to help train al-Qaeda fighters on the best ways to attack U.S. tanks.

Tracking terrorists is a laborious process. 7-Seas digs up information using search engines and data-mining programs, then converts it from Arabic into English. That's how it stumbled upon a series of postings that suggested a plot to attack Western compounds in Riyadh, Saudi Arabia. In the spring of 2003, the group found a message asking for addresses of Americans and Britons in Riyadh and southern Jeddah. The writer said he wished to reward the foreigners "as they do to our brothers in Palestine and Afghanistan." 7-Seas also saw postings discussing how to detonate bombs by cellphone. It passed the information to the FBI. A mere eight hours later, terrorists attacked compounds in Riyadh, killing 35 people, including nine foreigners. Investigators later discovered the bombs were detonated by cellphone. "We had sufficient information to prevent the attack," says Astley, "and if we had got it to the authorities a couple days earlier, it might have been enough to stop them."

Astley's main target now is Abu Banan, operator of the Global Islamic Media forum, which news reports have called the "de facto al-Qaeda website." The site comes and goes as its Web host is notified of its existence and shuts it down, only to see it pop up again with a slightly different name. U.S. officials say Banan has ties to al-Qaeda and previously used the site to signal attacks. According to Astley, Banan is in Canada. Astley has tracked down the current incarnation of the site and traced the author's Internet origin—called a router hub—to a Toronto suburb. He says he's forwarded all the information to the RCMP, but rarely hears back. (An RCMP spokesman says that while the agency encourages the public to report possible threats, any leads provided—and details of subsequent investigations—are confidential.)

Not all freelance terrorist hunters are content with passing tips to the authorities—some take a more direct approach. Internet Haganah, a group named after the clandestine military wing of the Jewish leadership during British rule in Palestine, for example, investigates sites related to Islamic extremism and, depending on what it finds, either monitors or "engages" them by asking the Web-hosting company to shut them down. "The point," says Aaron Weisburd, the group's American leader, "is to let terrorists know there are consequences to waging jihad." For his efforts, he's received copious amounts of hate mail, was the subject of a *fatwa* by a Muslim cleric, and has had to fight off countless attempts to overload and crash his site. More ominously, in June he received a handwritten letter addressed to "the Jewish asshole Aaron Weisburd," giving him a week to shut down his site or he'd be beheaded.

For all the dedication and even risk-taking, anti-terrorism publication, posts beheading videos on its site, arguing the public needs to see the pictures to understand the enemy's nature. "Our objective is to show what these men really are," says NEIN director Douglas Hagmann. "They're not militants, freedom fighters or activists. They're savages."

HOW TO CATCH A JIHAD WARRIOR

7-Seas members spent a month tracking Ryan Anderson's digital trail in an elaborate game of connecting the dots.

- Stumbled across an October 2003 posting on Brave Muslims, a Yahoo! forum, by Amir Abdul Rashid, who said he wanted to pursue jihad in Iraq. Abdul Rashid left an email address (almuja hadeen47@yahoo.com) and a picture of himself.
- Tracked the email address to a Yahoo! group for Muslim converts. Found two messages by an Abdul Rashid from Pullman, Wash. The messages contained another address, panzergrenider @yahoo.com.
- Followed the panzergrenider email address to the Yahoo! profile of F.J. Ikari.
- A search for Ikari and Pullman, Wash., led to a forum on Japanese cartoons used by students of Washington State's Pullman campus. Some postings from Ikari are signed Ryan Anderson, who talks about going to Iraq. Messages contain other addresses, including gunfighter84@hotmail.com and ryananderson7@us.army.mil.
- Tracked gunfighter address to a forum for gun enthusiasts where Anderson had posted his rank, unit and a picture of himself—the same one found at Brave Muslims.

M.S.



Some anti-jihad activists go so far as to set up phony terrorism websites, cataloguing who visits them before turning the information over to the authorities. Others embed homemade Trojan horse programs into bomb-making documents and other digital files, when someone downloads and opens such a file, the embedded program sends information about the user's email and surfing habits back to the program's creator. But this sort of "hacktivism" is frowned upon by most anti-terrorism activists because it can morph into vigilante acts. "I'm not sure I like the idea of individuals fighting this by themselves," says Weimann. "Once they move to hacking, I would argue it's counterproductive."

7-SEAS' latest target is known as Abu Banan. 'He's been called al-Qaeda's webmaster, and he's right here in Canada.'

Occasionally, tactics get downright bizarre. The Northeast Intelligence Network, an does all this amateur activity make a difference? Intelligence agencies, after all, have entire departments dedicated to monitoring online traffic. For some Web detectives, the chase seems as much a hobby as a public service, with groups competing to be the first to translate a new posting and put it on their sites. Most troll the same sources, and hardly any know Arabic. "There are numerous well-meaning civilian groups," says FBI's Jensen. "Sometimes they provide helpful information that initiates investigations, but mostly they provide information on sites with which we are already familiar."

Astley admits that he sometimes wonders if he's wasting his time. He gets no money for his labours, and he hasn't worked as a programmer in six months. His wife isn't crazy about the 16 hours a day he spends on the computer. And often the leads he follows turn into dead ends. "I spent three days on this one site with jihad marching songs," he says with a chuckle. "I finally realized they were cellphone ring tones." Still, Astley finds consolation and encouragement in his few successes, and has no intention of stopping. "I just keep telling myself there would be people dead except for what we've done." M

NATHAN KNOPPAP

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Travels with Conrad

Greed helped dethrone the tycoon once crowned the Establishment Man

In his just released memoirs, Here Be Dragons *(Douglas Gibson Books, $42.99), Peter C. Newman recounts his 50-year odyssey among the rich, famous and powerful. This adapted excerpt describes Newman's three-decade-long relationship with Lord Black of Crossharbour, who excelled at being all three.*

I WAS IN THE LIVING ROOM, watching Lord Black of Crossharbour slowly dying on my television set. It was mid-February 2004, and I was tuned in to the court hearings in Wilmington, Del., that would determine his future as a press lord, mover of markets, coiner of words and dropper of names. As soon as I caught sight of him, shuffling past the TV cameras, I knew it was game over. Watching that magnificent trickster, once known simply as Conrad, whom I had crowned as the Establishment Man more than two decades ago in my book of the same title, I realized that he had changed. His Lordship no longer walked with that loping stride of entitlement that until so recently had marked his passage across boardrooms and croquet fields.

I adjusted my TV set, even banged it with my fist, but all I saw was a fugitive trying to hide from himself. While he answered reporters' questions, his face loomed up on my screen, bloated and somehow lacking its characteristic bulldog definition. It was difficult to believe that less than a decade earlier Black had been the proud proprietor of the world's third largest publishing empire, with 500 newspapers spreading his word to nearly five million readers, in the process earning annual revenues of $3 billion, with profits rolling in at the rate of $1 million every two days. On the witness stand, the Establishment Man was plainly not himself. Instead of bluster there was blubber. "I have been horribly defamed, characterized and stigmatized as an embezzler," he pleaded. "I am trying . . . to retrieve my reputation as an honest man."

Gordon Paris, a Black appointee who had taken over the chairmanship after the Hollinger International Inc. board fired Conrad with an unceremonious Saturday phone call, characterized his predecessor in court as an untrustworthy schemer and bully who had terrorized the board, at one point announcing he would fire them all if they didn't do his bidding. Rough treatment under any circumstances, but in this case bizarre, because the directors were, after all, his *consiglieri*, the good old boys who, over the preceding two decades, had rubber-stamped his every request. This was a male bonding movie gone terminally sour.



Eight months earlier, in June 2003, the directors, under mounting pressure from minority shareholders, had hired Richard Breeden to head an

The judge called Black's statements 'evasive and unreliable'



PHOTOGRAPH BY PETER BREGG/MACLEAN'S

independent committee charged with investigating Black's transactions. If corporate governance in the United States has a raging bull, it is Breeden, who had advised presidents Reagan, Bush (the smarter one) and Clinton on the issue, and also served as a tough and effective chairman of the Securities and Exchange Commission.

Still in the midst of his investigation, Breeden described to the Delaware courtroom what he thought Black would do if he were allowed to go through with his attempt to sell the firm's assets out from under its board (and minority shareholders) to Sir David and Sir Frederick Barclay, a pair of obsessively secretive British entrepreneurs who had built a Gothic style castle on their own (tax-free) island in the English Channel. If it succeeded, the backstairs ploy would put immediate cash into His Lordship's jeans, plus a potential US$10 million bonus he asked the Barclays to pay him for clinching the deal.

"I HAVE BEEN horribly defamed, characterized and stigmatized as an embezzler," Black pleaded in court. "I am trying to retrieve my reputation as an honest man."

Judge Leo Strine's subsequent Delaware verdict was pure censure, leaving our hero flopping around on a hot dock like a hooked and landed barracuda. Perhaps the most painful comment came when Strine described Black's defence as "frivolous." The judge called Black's statements "evasive and unreliable. His explanations ... do not have the ring of truth." Concerning the sale to the Barclay brothers, the judge flatly disallowed Black's desperate manoeuvre. Strine's condemnation, spread over 130 closely reasoned pages, lacked nothing except any hint of ambiguity. His message was brutally clear: Lord Black of Crossharbour, Thesaurus Rex, Defender of the Divine Right of Things, Master of the Non Compete Clause, was toast.



He turned $7 million into a $4-billion empire

That was the day the music died for Canada's poster boy tycoon, and some of it died within me, because I was there at the creation. He wove his own legend, knitted his superego all by his lonesome, but I was his original mythmaker, the scribbler who sat with him for a decade, recording all those convoluted words and labyrinthine thoughts that added up to the Legend of Conrad Black.

We first met when he returned to Toronto from Quebec in 1974. Black was 29, had earned a law degree from Laval, had written an unusually perceptive master's thesis on Quebec premier Maurice Duplessis and, with his partners Peter White and David Radler, had purchased the *Sherbrooke Record* for $20,000. He was socially awkward, dressed like a disc jockey at a classical music station (conservative, but uncoordinated) and carried himself gingerly, as though constantly crossing ponds of freshly formed ice. His wit and erudition, his rhetorical pyrotechnics, are what first attracted me to him. I was mesmerized by his encyclopedic brain and photographic memory.

Even when it was just the two of us at his home or office, he would act out his answers to my questions, rising in his seat to imitate Charles de Gaulle or Napoleon Bonaparte, his favourite role models. "I have always felt," he told me at the time, "it was the compulsive element in Napoleon that drew him into greater and greater undertakings, until he was bound to fail." The foreshadowing was lost on me at the time.

Having studied the man at close range, it seemed to me that most of Black's verbal excursions into baroque dialogue were strictly play-acting. In retrospect, I realize he was attempting to create a form of immunity, digging a protective moat filled with beehives of words to guard his inner self. As an amateur historian, Black realized the importance of generating that quality of remoteness which sets any society's memorable figures apart from the lesser orders. When I first began to probe his psyche, the barely concealed symptoms of his neurosis were hard to miss: he described his late 20s and early 30s as having been afflicted with "diffuse, paralyzing, strangling anxiety attacks, night sweats and bouts of obsessive terror." Luckily, we met after he had stopped carrying a barf bag to mitigate his fear of sudden nausea.

I would like to report that I instantly recognized in Conrad the seeds of self-destruction. I didn't. What intrigued me was the smell of a great yarn that would require a dedicated storyteller. I identified, perhaps subliminally, a sense of destiny in him, the potential to be a pivotal and dramatic figure when he grew up. I thought he was worth a book because the existential streak in his nature might lead him to the wilder shores of the corporate world where he would triumph, or destroy himself.

His daring 1978 Argus takeover, multiplying the $7 million he had inherited from his family into control over corporate assets worth $4 billion, used tactics that I described as requiring "the balls of a canal horse." It took 40 pages of my book to describe the intricate details of how Black managed the deal, which came down to persuading the widows of its former owners who, even with legal advice, had not the slightest idea what they were signing, as they later admitted, to support his takeover. It set a pattern. All of his later significant acquisitions involved families whose great days were long gone: the Berrys in London, the Fairfax family in Australia and the Southams in Canada. His empire was based on the fragility of others and his own chutzpah. The positive side of his legacy is that he improved every major paper he bought, and the only one he started, the *National Post*, significantly uplifted the standards of Canadian journalism, particularly under its founding editor, Ken Whyte.

As for the others, the majority of his papers were small town North American dailies that were run like sweatshops. The Black



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formula, worked out and implemented by his partner Radler, was razor-edged. He would move into a likely property and count the newsroom desks, calculating how many reporters he could afford to fire and still provide enough editorial matter to separate the ads. Their small-town dailies operated with Radler's legendary three-person newsrooms—with two of them selling ads. This led to strange anomalies. For example, on Feb. 11, 1978, when a Pacific Western Airlines jet crashed at Cranbrook, B.C., killing 43 of those aboard, the Black-owned Cranbrook *Daily Townsman* covered the tragedy mostly by using Canadian Press copy out of Toronto.

My volume on Black was published in 1982 to mostly favourable reviews and soon overtook *Jane Fonda's Workout Book* at the top of the bestseller list. The most revealing commentary was in a letter I received from Conrad himself. He was not pleased. "What is particularly irritating is that it is not open season on me, but upon a largely fictitious image that you created for me," he wrote, "of a chillingly ruthless and rather conceited person, obsessed with materialism, pontificating endlessly and viewing the world through the prism of a reactionary proprietor. In presenting a book ostensibly about me, but which really tells the readers more about you and your fantasies, you have unintentionally inflicted more inconvenience upon me than you might imagine."

How could I have been so wrong?

In the summer of 1992, I found myself in London and decided to drop in on Black, by then firmly entrenched as proprietor of the *Daily Telegraph*. He had sold the newspaper's impressive building on Fleet Street and later became one of the first tenants of Paul Reichmann's epic Canary Wharf dreamscape, then awash in red ink. When I walked into his tennis court-sized office, I found a very different Conrad Black from the one I'd known. For one thing, instead of rising energetically from his deep leather chair, he majestically decanted himself, appearing considerably thickened and considerably more regal. There was no longer anything comfortably dishevelled about him; he was a perfect parody of a British merchant banker, bespoke by H. Huntsman & Sons of Savile Row. He still loved to drop names such as Kissinger's ("Had breakfast with Henry this morning, who said that the standard of statesmanship is the lowest he's seen in all his adult life"), but his remarks were offered less as boasts than as vaguely informative footnotes. In his position as publisher of what was arguably Britain's most influential newspaper, Black had attained a state of grace that finally allowed him to capitalize on his aura. The world's financial and intellectual elite now lined up to see him. The evolution of his theatrical personality reflected his realization that all great stage performances consist equally of reality and sorcery, and that the most difficult role is to play yourself. He had at last found the courage of his condescension and was enjoying every minute of it.

"I feel myself very fortunate," he told me, building a finger pyramid in front of his face. "I do pretty much what I like and don't do very much that I don't like. I don't mean that in a social, hoity-toity way, but I'm personally happy with my lot. It's part of the culture here that newspaper owners, and especially owners of the serious and responsible newspapers, are very deferentially treated—frankly, rather more than they deserve. But it would be hypocrisy for me to object to that, as one of its beneficiaries."

AS *TELEGRAPH* publisher, he attained a state of grace that allowed him to capitalize on his aura. He had found the courage of his condescension and enjoyed every minute of it.



Lady Thatcher sponsored Lord Black into the House of Lords

Black reminded me that he was still basing his corporate strategy on military analogies, advancing "like a platoon of men through a forest, parallel lines moving in various directions," adding, "Whenever there is a breakthrough, I exploit it." His tactics had never worked more effectively than in his capture of the *Daily Telegraph*, whose 1.1 million weekday circulation made it Britain's most popular broadsheet. After putting into place a superb editorial team, he reduced the overall staff by three-quarters and turned the once moribund paper into a lively enterprise. Its 1991 pre-tax earnings of $86 million, on revenues of $464 million, were an incredible 29 per cent higher than the $67 million he had paid to gain control of the company in 1986. Under his guidance, the Telegraph group increased in value by an astounding 1,000 per cent.

Black's downfall dates back to the fall of 1993, when he engaged in a feud with Rupert Murdoch, the pragmatic proprietor of the *Times*, who had reduced his paper's cover price to challenge the *Telegraph*'s then heady circulation lead. Black reacted by pledging that he would never follow suit. Meanwhile, to fatten his reserves, he sold 12.5 million Telegraph shares to British institutional investors.

That social season, Conrad and his new wife, Barbara Amiel, hosted a party for 150 glitterati at the Ritz, with guests including Diana, Princess of Wales. Two days later, on June 22, Black went back on his word and drastically reduced his paper's newsstand price to match that of the *Times*. That cut his paper's revenues by $95 million, driving Telegraph shares down by more than one-third. At the time, the Telegraph's account was handled by Cazenove & Co., the bluest of the City's blueblood firms, the Queen's own stockbroker. Cazenove's discreet and illustrious partners were so upset by Black's crude opportunism that they resigned from the firm's historical association with the Telegraph, publicly emphasizing the seriousness of Black's betrayal. Conrad lashed

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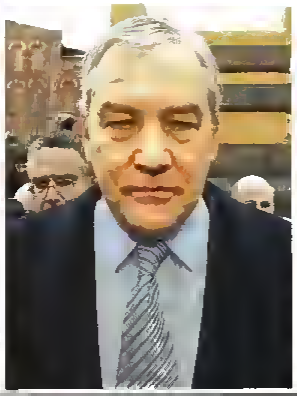
Laurentian Laurentienne

back, calling the broker's actions "an orgy of self-righteous English hypocrisy." But the British newspaper broker Hylton Philipson, of Pall Mall Ltd., spoke for the City when he declared: "Conrad has pissed off the establishment on this one."

The incident prompted Black to move the core management of his empire to the United States, which turned out to be an essential factor in his undoing. Conrad and Barbara established their first American beachhead on New York's exclusive Park Avenue, where they purchased a luxury condo. In Palm Beach, Fla., they bought a 20,000-sq.-foot palace featuring a ceramic-tiled tunnel under the street that opened up to 300 feet of private Atlantic beachfront.

THE FIRST consequence of the Delaware court's verdict was a journalistic witch hunt in London, the place where Black was most anxious to preserve his wounded dignity. London's newspapers are the most competitive on Earth, and nothing sells papers faster than a fallen idol. In Conrad's case, every published "exposé" of his downfall proved especially titillating, since it was inevitably accompanied by a scene-stealing portrait of the glamorous Barbara in various coquettish poses, sporting her fabled décolletage and uttering one of her snooty quotes, guaranteed to extinguish whatever sympathy remained for her beleaguered hubby.

Black says he's innocent and is suing for libel



Conrad's responsibility for what appeared to be a gross misappropriation of corporate funds remained to be proven. But the fact that the members of the corporate audit committee of Hollinger's parent company, Hollinger Inc., resigned en masse on Nov. 21, 2003, after demanding changes to senior management, is a matter of record. To Black-watchers like me, that event was of signal importance. Hollinger's audit committee was billed as independent. In fact, all but one of its members happened to be Conrad's best friends or, more accurately, his cronies.

Their abrupt departures drew public notice to Ravelston Corp. Ltd., the mysterious holding company at the very heart of the scandal, which I had been the first to write about. Ravelston stock is two-thirds owned by Conrad while Ravelston, through its supershares before its recent troubles, owned less than one-quarter of the equity but nearly 60 per cent of the voting control of Hollinger International. When Black was asked why Breeden's investigators were not permitted to inspect Ravelston's accounting records, he replied, "Because they weren't invited. What does it need to be verified for?"

Tony Fell, Bay Street's most knowledgeable and astute operator, had taken his friend Conrad aside at a party in Palm Beach 18 months before any problems had surfaced and strongly advised him to wind up Ravelston and all of the other problematic features of the Hollinger corporate maze. "He promised he'd look into it, and then didn't do a damn thing," Fell said later.

Believing his legend, Conrad thought he could outwit, out-charm and, if necessary, out-bully anybody, anywhere. For more than two decades, his gambit succeeded, but there was one group—his minority shareholders—that he had failed to bewitch. His witticisms and pretensions carried no weight with them; they wanted a fair share of profits and higher dividends. To them, Black was the guy who had run the company into the ground and looted its treasury. By Oct. 30, 2003, Moody's had put the company's securities under review, dubious about Hollinger's ability to service its debt load and its "questionable corporate governance practices."

His critics' most damning argument concerned Black's Himalayan pay packets. According to Breeden's investigation, Black and his immediate circle received total compensation between 1997 and 2003 of US$402 million. During the same time period, the senior group at the New York Times Co. and Washington Post Co. together took home US$134 million. As a percentage of net income, senior Hollinger people took home 95 per cent while compensation for the Times and Post groups were each under five per cent. By 2003, the holdings under Black's charge had dwindled from its 500 papers to three major dailies: London's *Daily Telegraph*, the *Chicago Sun-Times* and the *Jerusalem Post*. At the same time, his record of running Hollinger had been stunningly inept. Since 2001, Hollinger International's losses had exceeded US$400 million, while other newspaper companies such as the New York Times and Washington Post were flying high, sometimes even recording double-digit profit ratios.

THE MOST peculiar items in the Black group's roster of personal compensation were non-compete fees of some US$90 million in three years, much of which was tax-free

The most peculiar items in the Black group's roster of personal compensation were the non-compete fees that amounted to some US$90 million in the three years between 1999 and 2001, much of which was tax-free. These payouts, given to Black, Radler and others, were meant to guarantee that they would not reappear as competitors in the publishing markets they had just abandoned. The process was memorably described by the media analyst of the *Chicago Tribune*: "Black and Radler borrowed money from Black and Radler to pay Black and Radler for not competing with Black and Radler." The perfect perpetual money machine had finally been invented.

On top of all those millions pouring into Conrad's piggy bank were Hollinger's generous corporate perks, which covered the cost of two private jets, one owned and one leased. The Conrad Barbara leased luxury airborne conveyance was a top-of-the-line Gulfstream IV that had recently been refurbished for US$3 million to include

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a luxury sofa with a fold-out bed and a full ser of Christofle silverware. Operating these planes, according to Breeden's report, cost up to US$6.5 million annually, all paid by the company, including a holiday hop to Bora Bora. Black, Breeden found, did not reimburse the company for any personal use.

At the end of his 14-month investigation, Breeden noted the "... myriad of schemes, fiduciary abuses and fraudulent acts that were used to transfer essentially the entire earnings output of Hollinger over a seven-year period to the controlling shareholders." For his part, Black maintains his innocence and has launched a libel suit against the people responsible for the Breeden report. He has consistently maintained that the controversial expenditures were properly authorized and that he is innocent of any wrongdoing.

Tracing the chronology of Black's descent into a hell of his own making, I struggled with the question. Why? What was it all about, Conrad? I concluded that the arc of Black's downfall coincided with his appointment, in the fall of 2001 (appropriately enough on Halloween), to Westminster's upper chamber, when he assumed his title, Lord Black of Crossharbour. The name came from a light rail station in the Docklands area, near Canary Wharf where Black had his office.

He had always wanted to be a press lord, now he was. But he took the wrong message from that elevation. His title had less to do with merit than with position, since it was traditionally bestowed on proprietors of the Conservative *Telegraph*. Yet Black started acting as if, having joined a higher order of humanity, he could disregard conventional boundaries. Hence Conrad's declaration when climbing aboard one of his private jets at the height of the crisis: "I'm not prepared to re-enact the French Revolutionary renunciation of the rights of nobility."

If becoming a lord made Conrad feel impregnable, he must have been barricaded into a realm of his own invention, more attuned to the hallucinations of Don Quixote than the *realpolitik* of Bonaparte. As I watched him that day of his induction ceremony, duded up in his ermine trimmed robes, slow-marching into this hall of the living dead, I wondered in the name of all that was holy whether it had been worth surrendering his Canadian citizenship for such a dubious privilege.

Every once in a while the gene pools spits out a Conrad Black. It is a tragedy for him and for Canada that he didn't live up to his potential as a model 21st-century entrepreneur. The last of the great press barons, as opposed to the smooth media moguls who followed, Conrad was possessed, as one Silicon Valley wag put it, "by a clarity of vision, prompted by the purest form of greed." In his anguished progression from idol to outcast, Black suffered some telling insults. When it became obvious that he was on the way out, the price of his company's stock started to increase, doubling in a year—ironically, making his shares worth that much more. Black's saddest moment was his forced surrender last spring of the Telegraph's chairmanship, which had been his passport to the international status he had so dearly coveted.

What had impressed me in reconstructing his grab for Argus so many years ago was the subtlety of his tactics and the smoothness of their execution. "You've got to have the cadence just right," he had told me, "and you must treat events with a certain rhythm, maintaining a kind of symmetry as if you were conducting a symphony orchestra." He had done precisely that, at every step of the struggle to win the Argus crown and in his dazzling coup to gain ownership of the Telegraph group. But in devising his defence against the avalanche of charges hurled at him, he acted more like Peter Sellers than Arturo Toscanini. It was that absence of planning or strategy, anything really except stonewalling, flat denials, temper tantrums and pratfalls, once his integrity and methods had been challenged, that I found so puzzling. He must have seen the storm approaching. Fell had warned him, as had others, but he did nothing, ignoring viable options, allowing the riptide of accusations to wash over him.

But as I talked to those closest to him and meditated about this strange construct, a highly improbable explanation emerged. Conrad was truly convinced that he had done nothing wrong: he believed that he was merely following the jungle ethic of unfettered capitalism, the ideological mainstay of his own upbringing and that of his chosen handmaiden. He genuinely imagined himself to be one of the anointed, immune to the mundane regulations that govern ordinary behaviour, and he felt comfortable about flouting society's conventions, since he recognized no sanctions except his own.

IN DEVISING his defence against the avalanche of charges hurled at him, Black acted more like Peter Sellers than Arturo Toscanini. He had been warned, but did nothing

I recalled one long afternoon that had grown into evening, during my original interviews for *The Establishment Man*, when it came to me that he suffered from what the French call *l'orgueil*—an untranslatable desire to play God that implies its possessor is seldom wrong and never regretful. "I may make mistakes, but at the moment I can't think of any," Black cheerfully admitted that day, in a phrase that he pronounced carefully, as though rehearsing his own epitaph.

Unlike his hero Napoleon, who spent his dreary exiles on forlorn islands, Conrad Black will suffer the ignominy of internal exile, reviled by his one-time admirers, shunned by the very capitalists whose role model he imagined himself to be. He will feel terminally puzzled by this turn of events and blame everyone except himself. Black's nature is governed by a brash certainty that he was exempt from evil, and therefore innocent of any accusations, even before they were made or after they had been documented. Because he had so much, he thought he should have it all. Within his imperious bearing there thrived an inclination to avarice which, like Barbara's obsession with luxury, knew no bounds.

Conrad had turned himself into a latter-day Citizen Kane. He looked like a young Orson Welles and behaved like an old William Randolph Hearst. Babs and Conrad, our very own golden couple, have been disgraced. They may have millions squirrelled away to tide them over in great comfort and aplomb, but they have lost their reputation and social standing. We no longer envy them. We pity them. And that must be the most cruel punishment of all.

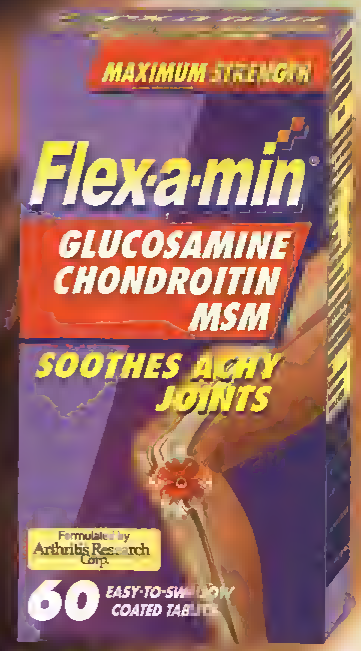
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PIT BULL, BUM RAP?

Bans like the one proposed in Ontario are rooted in media-stoked hysteria

LIKE ALL COMMERCIAL BRANDS, dog breeds fall in and out of fashion. Take, for instance, the Dalmation. When Disney released its live-action version of the classic animated film *101 Dalmations* in 1996, demand for the speckled puppies skyrocketed. Unfortunately, it didn't take long for many families to surrender their high-strung dogs to the nearest pound, cursing Disney for false advertising. Just as every era has its trendy "good dog," it also has its "bad dog." In the early '70s, thanks in part to a series of kitschy films about bloodthirsty Doberman pinschers, including *They Only Kill Their Masters*, this breed resurfaced as the tough guy's dog of choice. "The shelters were flooded with Dobes back then," says Diane Jessup, a veteran Washington-based animal control officer and canine historian. "Now you hardly ever see them."

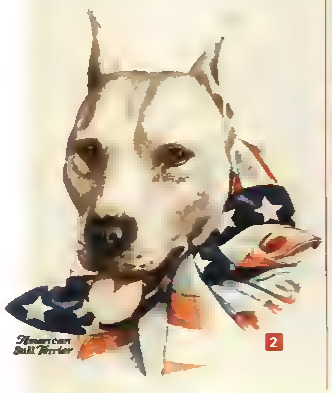
But for the past two decades, the meanest, "baddest" dogs in North American pop culture have been, without a doubt, pit bulls. We see them in hip-hop videos, snarling from the back seats of souped-up SUVs. We watch them in movies and on TV, in heavy chains, guarding the homes of their gun-toting, drug-dealing masters. In our own neighbourhoods, we sometimes encounter them roaming off the leash, their ears cropped like devil's horns, looking haggard and hungry. It's no wonder people are terrified.

Two weeks ago, following a series of gruesome, high-profile attacks, Ontario introduced legislation to ban pit bulls (and related breeds). Though they've been outlawed in Canadian municipalities before, this would be the first time a breed is banned province-wide (no new dogs will be sold, bred or imported, and existing ones must be muzzled outdoors). The move follows a highly emotional, contentious campaign. Politicians and victims groups contend that, as Attorney General Michael Bryant said, pit bulls are "ticking time bombs." But the province's animal experts—outraged at not having been consulted—argue the legislation is rooted not in facts and expert opinion, but in media-generated hysteria.

First off, I'd better come clean: my own dog, Ahab, is a nine-year-old purebred Staffordshire bull terrier. Even though there are no recorded incidents of Staffies ever attacking anyone in Canada, the breed has made the provincial hit list. Which underlines one of the central problems of the ban—the fact that pit bull is an umbrella term to describe a number of breeds and mixed breeds that share a stocky, athletic build, a short coat and a blocky head. To me, Ahab, is a regular

GOOD/BAD DOGGIE

It's morphed from man's—and kid's—best friend to devil dog



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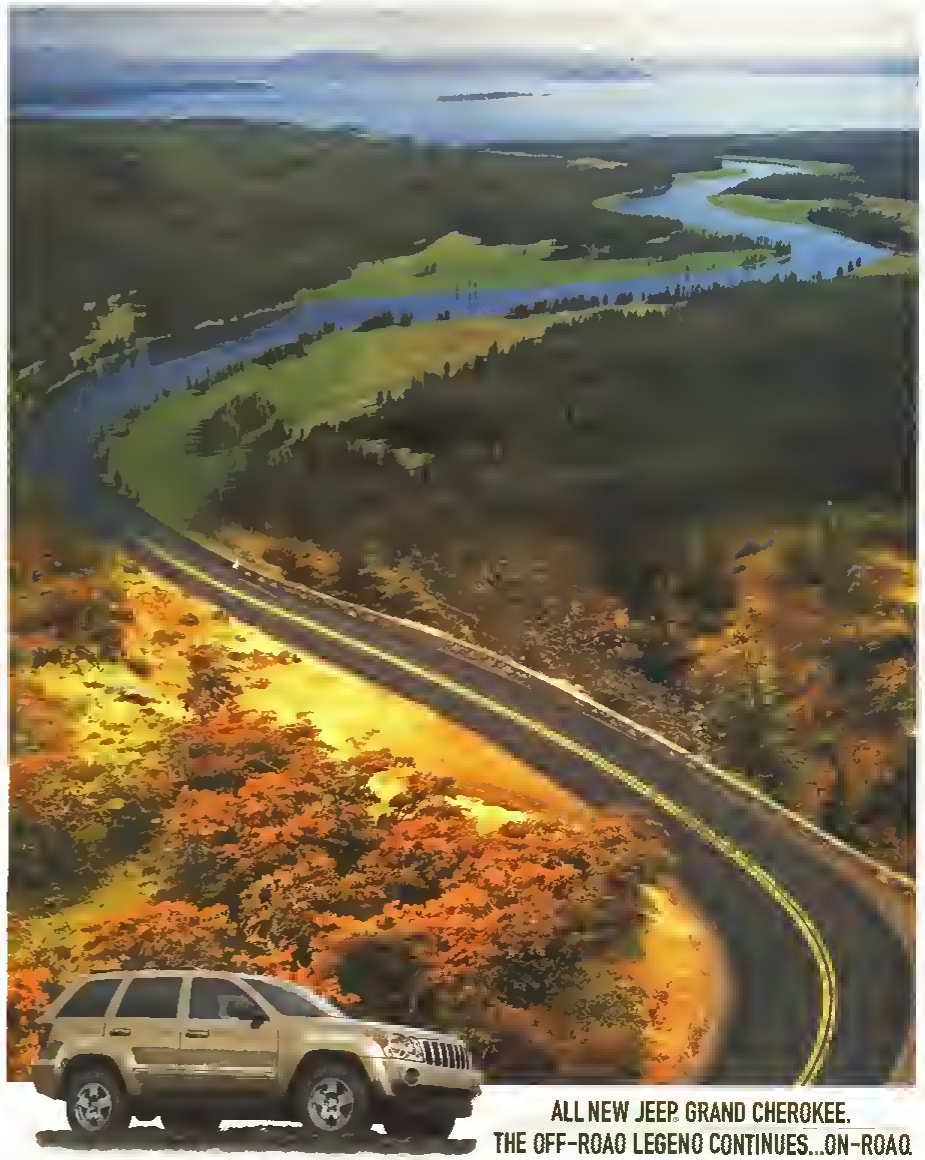
1896 United Kennel Club is formed with American pit bull terrier as its founding breed

1900s Modelled after the breed, the popular 'Tige' shows up in Buster Brown's shoe ads 2

FIRST WORLD WAR An American pit bull terrier is symbol of courage on U.S. military poster 1

1919 Sergeant Stubby, a pit bull, becomes most decorated dog in U.S. military history

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family dog—a joker and a couch potato, hungry for affection and table scraps, gentle and patient with ear-yanking children.

Experts in canine control and behaviour—including the Ontario Medical Veterinary Association, the Canadian Federation of Humane Societies and the Canada Safety Council—have all said the same thing. Breed-specific bans are reactionary and ineffectual because they don't address the root of the problem: high-risk owners. "If you remove so-called pit bulls from the province," says Dr. Gary Landsberg, a Thornhill, Ont., veterinarian and president of the American College of Veterinary Behaviourists, "people who want to breed and/or own vicious dogs will simply turn to other breeds." And they'll have no shortage of powerful canines to choose from. After Winnipeg banned pit bulls in 1990, pit bull attacks decreased significantly. But the number of attacks by Rottweilers and German shepherds surged. "We're now seeing South American breeds coming in that are really vicious," says Arleen White of the Winnipeg Humane Society.

What's interesting is that, in the early 20th century, the American pit bull terrier was actually considered to be the All-American dog. Its image graced First World War propaganda posters as a symbol of American courage and tenacity. Petey from *The Little Rascals* was a pit bull, as was Tige, the dog in Buster Brown shoe ads. Helen Keller kept a pit bull as a companion. So did President Woodrow Wilson and Fred Astaire. By the mid-'90s, however, the breed had grown increasingly popular among those looking for the next "killer dog." Soon, the image of the pit bull was co-opted by tough-guy clothing and accessory lines like Pitzwear and Bulletproof Dog. Rap artists like DMX and OutKast's Big Boi began to use the dogs as status symbols—the meaner, the better. Media myths arose about the pit bull's ability to lock its jaw. And breeders with dubious names like "Deranged Kennelz" and "Stone Cold Pits" began breeding specifically for size and aggression.

AMAZINGLY,
in the early 20th century the pit bull terrier was considered to be the all-American dog

As a result of their bad boy image, pit bulls are by far the most widely—and cruelly—abused canines in North America. Humane societies have countless stories of owners routinely leaving the dogs chained for days, starving them, burning them with acid, feeding them Tabasco sauce and making them wear barbed-wire collars—all to make them as angry and aggressive as possible. "If you knew what these dogs go through," says Jessup, who has written a book on the breed, *The Working Pit Bull*, "you'd be amazed that there wasn't a pit bull fatality every day of the week."

Any dog can be dangerous if not properly trained, socialized and controlled. In the past 40 years, North Americans have been fatally attacked by 37 different breeds, including an Irish setter, a Brittany spaniel and, shockingly, a Pomeranian cross. The dachshund—affectionately known as the "wiener dog"—has killed three people.

Currently, Canadian animal experts and organizations are lobbying for more comprehensive dangerous dog legislation—something that holds owners of all breeds accountable and doesn't penalize responsible owners of maligned breeds. For now, however, the pit bull is alone in the doghouse. M







1920s and '30s 'Petey' from *The Little Rascals* is an American pit bull terrier 3

1990s Companies like Pitzwear use the breed's image and street cred to sell their gear. 4

2002 Outkast's Big Boi opens Pitfall Kennels in Georgia. Known for its rare "blue" pits. 5

2003 Rapper DMX features a chained-up pit bull on the cover of his album *Grand Champ* 6

2004 Portland Trail Blazer Qyntel Woods under investigation for staging pit bull fights

2004 Ontario government introduces legislation to ban pit bull breeds

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Melting sea ice is changing the habitat for walruses and other marine mammals

FEELING THE HEAT

The Far North is hard hit by global climate change

ON A WARM summer day near the northern coast of Baffin Island, a wasp was buzzing around. It's a sight so rare this far north of the Arctic Circle—more than 73 degrees latitude—that Niore Iqalukjuak, the mayor of Arctic Bay, didn't even know what to call it. Inuktitut has many words for snow, but there are none yet for these new insects. Iqalukjuak, who later learned it was a yellow jacket, said he thought it had flown to Baffin Island because its wings looked worn.

Whether born in the Far North or just visiting, the errant wasp is a symbol of larger forces at work. According to a major new international report on climate change in the Arctic, not only is the circumpolar region warmer than before, it is experiencing some of the most rapid temperature increases on Earth. Annual average temperatures in the Arctic, in fact, are increasing about twice as fast—and in some places 10 times faster—as those elsewhere as sea ice continues to melt and can no longer deflect the heat away from Arctic land and water. "Impacts of a Warming Arctic," whose key findings are being released in a 144-page summary this week in Reykjavik, Iceland, blames the accelerated warming largely on carbon dioxide and other heat-trapping greenhouse gases. "It's happening now, and it's been happening for decades, and it has consequences for the whole world," Robert Corell, chairman of the working group that produced the report, told Arctic politicians in September in Nuuk, Greenland.

> **'ARCTIC warming is happening now, it's been happening for decades, and it has consequences for the whole world'**

No Washington politicians were at the Nuuk gathering. But the U.S., along with the other members of the Arctic Council—Canada, Denmark, Finland, Iceland, Norway, Sweden and Russia—had commissioned the assessment four years ago amid a growing sense of urgency about global warming. The resulting 1,400-page report, the peer reviewed work of about 300 international experts, is the most comprehensive assessment of the causes and consequences of Arctic climate change to date (the full text will be released early in 2005). It provides a stark and sombre litany of the environmental, health and social impacts resulting from projected 4°C to 7°C temperature increases over the next century. In the warmer Arctic world of tomorrow, there will be more robins than polar bears and the treeline will move north. Diseases new to the region will appear. For instance, elevated ultraviolet radiation levels could lead to skin cancer, non-Hodgkin's lymphoma and cataracts. Other new possible health threats: the mosquito-borne West Nile virus, and melting permafrost affecting the water supply.

Life is already more unpredictable for northern residents, who complain of increasingly late freeze-up dates, which makes travelling on traditional trails much more dangerous. In mid-October, a snowmobile driven by an elderly Anglican minister and his wife fell through a patch of unusually thin ice into the frigid water of a lake near the Nunavut community of Kugluktuk. After an extensive search for the missing pair, came the grisly find. Sam and Lena Kikpak were found drowned, encased in lake ice.

The Arctic report has its own examples of a changing environment: a 15° C increase in the annual winter temperatures in Yakutsk, Siberia, 143 villages threatened by storm surges and flooding in Alaska, increased glacial melt, and shorter, warmer winters throughout the Arctic basin—even if the weather remains unusually cool in some spots. "Extremes are going to go both ways and that's going to confuse people," explains Corell, a senior fellow of the American Meteorological Society in Washington.

The assessment looked at five climate models, and each one shows temperatures continuing to rise in the higher latitudes. There may be some benefits: more agriculture and an ice-free shipping lane through the Northwest Passage for longer periods. But these pale compared with potential hazards. Increased shipping—and access to resources—will raise new sovereignty and security issues for Canada. Retreating sea ice will change the habitat for polar bears, walruses, seals and marine birds, threatening the very core of the traditional Inuit way of life.

Stopping climate change, Corell acknowledges, will be like "trying to put the brakes on a supertanker." But the power of the scientific evidence, he says, means it's time to "move out of the valley of indecision and delay." In other words, it's time to act.

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THEY SOLDIER ON

Fighting a membership decline, Legions bid to attract a new generation

AT THE ROYAL Canadian Legion branch in Trenton, Ont., a man renewing his membership last week paused to read a newspaper article, posted by the staff, about the possible sale into foreign hands of a former serviceman's medals. Among them is a Victoria Cross—the Commonwealth's highest military honour and one of 94 ever awarded to a Canadian. Highlighted in yellow at the end of the article is the name of the organization that's raising funds to buy the medal to keep in a Canadian museum. After he finished reading, the member pulled a $50 bill out of his wallet to pay for his $40 dues and, turning to leave, refused the change. "Would you put the other $10 toward that?" he asked the woman behind the counter, pointing at the article. "That Victoria Cross should stay in Canada."



At the Trenton branch, Fairman (centre) and his pals gather for their daily card game

That's the way it is with Legion members. The organization was formed to support war veterans, but it didn't stop there. Legions act as de facto service clubs in their communities, providing assistance to seniors and sponsoring kids' sports teams and public-speaking contests. Members visit hundreds of schools every year, explaining the importance of Remembrance Day and the role of Canada's Armed Forces, past and present. And with formal programs and gestures like the one above, they help preserve our often little-known military history.

But while the founding spirit remains strong, the Legion itself has been weakened in recent years. Core members, veterans from the world wars and the Korean War, are dying. And with far fewer people in today's military, there are fewer to join. Membership in Canada has declined by a third since the late 1980s, from about 600,000 then to just over 400,000 today. And more than 100 branches have closed in that time, leaving about 1,600 nationwide. Even in the Trenton branch, which sits just a few kilometres from an Armed Forces base and has a glorious location overlooking the Bay of Quinte, membership has dropped by more than 20 per cent. "We've still got 250 veterans here from World War II and the Korean War," says branch president Hugh Mackay, "but sadly, there are less of them every year."

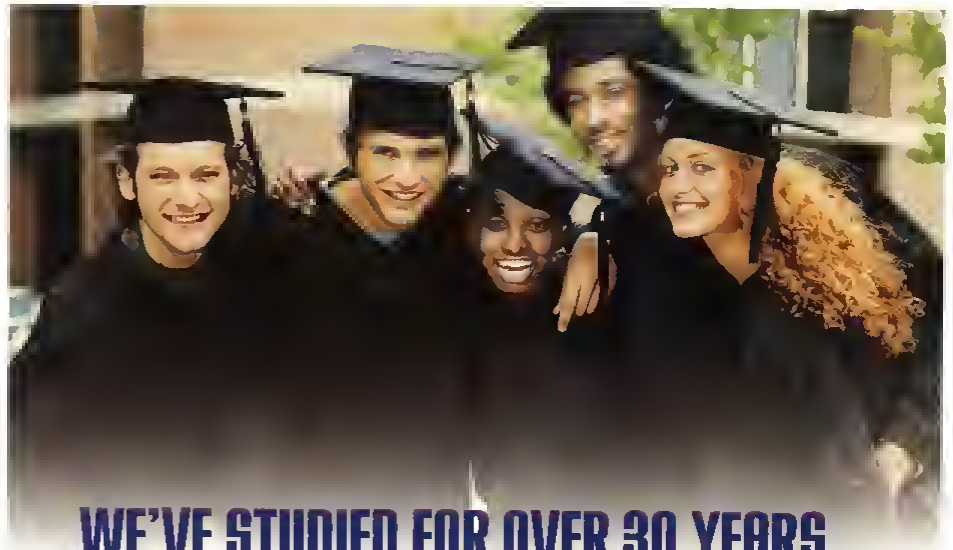
> 'WE are working to modernize the organization,' says Burdett. 'But we're also working hard to preserve our traditions.'

To offset the decline, Legion officials are trying to attract new people through more inclusive criteria that don't require military service. Overall numbers aren't increasing, but they have at least stopped falling. And there's been a surge in observance of Remembrance Day in recent years among non-military people who, Legion surveys suggest, value Canada's military past and its current peacekeeping role. "We are working hard to modernize the organization," says Dominion Command president Mary Ann Burdett, the Legion's first female chief executive. "But we're also working hard to preserve our traditions. Our roots, whatever happens, will always be in the military."

Trenton member Doug Fairman, who served on minesweepers and Corvettes escorting convoys across the North Atlantic from 1943 to 1945, says he'd welcome some new blood. "The Legion needs new people to carry on," the 79-year-old says. Still, a look around the bar and dining areas of the Trenton branch on a mid-week November day indicates that most regulars are seniors. Fairman has been playing cards—a fairly cutthroat brand of cribbage by all accounts—and drinking a few beers with the usual guys at the Trenton branch nearly every day since he retired 19 years ago. The dependable social life has been especially important to him since his wife of 54 years died 14 months ago. "We may call each other names when we're playing cards," Fairman says with a smile, nodding at the other guys around the table, "but we really are good friends."

On Remembrance Day, they'll get dressed up and join the other men and women honouring those who fought and died fighting for their country. And in a way, they'll remind Canadians that the Legion, despite tough times, still matters. "They want it to be a proud, strong organization," says Burdett, "not just now but after they're gone." M

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A TIDAL WAVE FOR THE AGES

Canada's worst earthquake disaster killed 28 people



SIX-YEAR-OLD Levi Pike of St. Lawrence, Nfld., was playing outside with a friend around 5 p.m. when he felt the earth shake. "The water was very high that evening," he says of that Nov. 18, 1929. "We were throwing rocks at a can in the water, and all of a sudden I felt a tremor. My buddy Jim's mother had this big sewing machine, and I went and pulled myself up on the window ledge because I thought she was running the machine."

Two and a half hours later, the people of St. Lawrence on the Burin Peninsula, 220 km southwest of St. John's, watched the town's harbour empty as if someone had pulled the plug on a drain. And then they watched it fill up again, the result of a tsunami or tidal wave travelling at an estimated 144 km/h. Pike was in bed by then, sleeping. "My father came and took me on his shoulders down to the harbour, and it was a scene of devastation—stages and stoves and homes were floating around. I can see it now like it was a photograph."

The largest earthquake disaster in Canadian history killed 28 people on the peninsula and caused about $1 million in damage (in 1929 dollars). Registering 7.2 on the Richter scale, its epicentre was 250 km south of the peninsula on the Laurentian Slope. The quake caused a huge section of the sea floor south of Newfoundland to slump, launching the tsunami that produced waves in height from two to 27 m along the peninsula. Seventy-five years later, earthquakes remain a rarity on North America's east coast—and the Burin Peninsula tidal wave is the only one in the 20th century that produced waves of one metre or more. The devastating 1995 earthquake in Kobe, Japan, that also registered 7.2 on the Richter scale, killed more than 5,200 people in a much more populated area.

Days later, nine buildings were floating outside of the Burin harbour

The South Coast Disaster Committee, which distributed $250,000 to provide relief for the hundreds of homeless, described the Burin Peninsula quake's aftermath: "Suddenly, the ocean rose up and deluged the land, crushing the people's homes and their possessions in one common ruin for a distance of 50 miles along the coast. Forty towns and fishing villages, affecting a population of 10,000 people, were involved in grief and disaster."

At the time, there were no roads between the Burin peninsula and the then Dominion's capital of St. John's, and the rest of Newfoundland had to wait three days before learning of the disaster. It came, by radio, from the S.S. Portia, a coastal supply ship that had put into the town of Burin, 21 km northwest of St. Lawrence. Three weeks later, the Portia's captain, W.B. Kean, wrote to the St. John's *Evening Telegram* about what his crew saw. "Imagine our surprise on turning the point of the channel to be met by a large store [a fisherman's shed] drifting slowly along the shore seaward, then a short distance, another store or dwelling house until nine buildings were counted, strewn along the shores before the harbour was reached. On reaching the harbour even a worse spectacle greeted the eyes. The sight of the whole thing as it appeared from the deck on that eventful morning, to say the least, was weird in the extreme, and all eyes were fastened on the waiting group of men on the shore to learn the truth of what had happened."

'IT WAS a scene of devastation—stages and stoves and homes were floating around. I can see it now like a photograph.'

One thing has stayed the same on the peninsula since the quake—even since Europeans first settled there more than two centuries ago. There isn't a single community located in the peninsula's barren interior, and the coastal towns have huddled precariously along the rugged shore, perched to exploit the once prosperous fishery. Many buildings are erected on the water's edge. After a federal 1996 emergency preparedness study, geoscientists warned that the same risks remain and that, if anything, the town of St. Lawrence was in more danger than it was prior to the tsunami. Today, some 30 homes, all of the town's fishing business and almost the whole commercial core, along with the RCMP and fire stations, are well within the area flooded in 1929.

Levi Pike still lives in the community, but has moved to higher ground. "It didn't inflict me with any dreams," he says, "but I thought about it a lot for years later. I never forgot it, I can tell you that." M

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MAKE OR BREAK HOTEL

Every year, Canuck actors congregate in L.A. to chase the Hollywood dream

A PARTY IS raging in Room 221 of the Highland Gardens Hotel in Hollywood, Calif. Eighties music is blasting, and all the food has been cleared from the fridge, replaced with four shelves' worth of Red Stripe beer. Girls who barely eat are drinking too much, and guys with perfect teeth and just the right amount of facial hair talk about how they really want to write, direct or produce. A balding magician in a tux and an overweight comedian in a suit stand awkwardly in the corner, while the party's requisite aspiring rock stars—three underage Strokes-looking boys—are passed out together on a loveseat. It's an average night at the Gardens. Something the couple in Room 121, directly below, didn't know when they checked in with their baby earlier that week. The next morning, hotel co-owner Jack Baklayan shrugs off the noise complaints. "We don't care about the party," he says. "I've even gone up there for drinks sometimes. It's not like they do it every night—just every other night."

He's referring to the stream of young Canadian actors who come to Hollywood from January to April each year to audition for TV pilot season, and who have developed a community at this hotel—a 1950s, dusty rose-coloured, two level, apartment-style complex with a sordid history. "You walk into this wonderful lobby with this beautifully landscaped outdoor garden and nicely lit pool," says Toronto actress Liane Balaban, 24. "It has a '70s, Hollywood golden era charm, a real atmosphere. But the rooms are not as splendid. My first impression was that the rooms are the type of place where the police put you when you're in the witness protection program."

Balaban, Markle and Shannon on the Highland Gardens roof in February

Well, it's certainly possible—everything else seems to happen

PHOTOGRAPH BY BILLES MINGASSEN/GETTY

here. The band Earth, Wind and Fire is said to have recorded an album at the hotel, and Brad Pitt is rumoured to have lived there, while the late Jeff Buckley may have worked the front desk. A number of porn shoots have taken place at the Highland Gardens, prostitutes sometimes use the premises, and the place has seen some heavy drug use. In fact, Janis Joplin overdosed and died in Room 105, on Oct. 4, 1970. Fans often make a pilgrimage to the hotel, and some hold seances in Joplin's old room.

For the Canadian actors, the reality of the place is usually more prosaic—and unsavoury. Two-season Highland Gardens vet Jonas Chernick says his room smells like urine. Balaban avoids touching the dirty string that pulls the curtains, former resident Polly Shannon (who played Maggie in CBC's *Trudeau*) complains about the puke-pink carpeting, and the party throwers, David Julian Hirsh and Stephen Markle, have an oven that oozes black sludge. Meanwhile, some residents complain the owners have no fixed rates and continually quote one price and then insist on a higher one (a charge the management denies). But you can't beat the location, minutes away from the showbiz nexus of Hollywood and Vine, or the summer camp-like atmosphere. Besides the parties, there are BBQs by the pool, Ping Pong matches, hikes in the canyon behind the hotel and late-night game sessions. "Instead of Canadian actors doing coke," says Brooke Nevin, the Toronto actress in Room 120, "they're playing Boggle."

For years, word has circulated in Canada that if you're going for pilot season you should stay at the Gardens. Maury Chaykin and Saul Rubinek were some of the earliest Canadian residents about 30 years ago, and Jeremy Ratchford lived in Room 128 for seven years during the '90s, before landing a lead role on the hit CBS show *Cold Case*. These days, a new wave of young talent takes up about a third of the 71 rooms during pilot season. They run lines together, give advice on how to nail a scene, lend each other clothes for auditions and, most important, offer shoulders to cry on when yet another role passes them by. "For a first-timer in Los Angeles," says Balaban, "I think it's the best atmosphere to be in. You will meet more Canadian actors in three months than you do in a year in Toronto or Vancouver."



Markle (left), with Balaban, Hirsh, Shannon, Chernick, has 'never been poorer nor happier'

You'll also meet a few characters. The other two-thirds of the hotel is made up of old-school actors—who've gone from roles in films like *Scarface* to guest spots on shows like *The Practice* and *Hack*—and some sad cases. Since his wife fell sick, Harold, a former clarinetist, has taken up heavy drinking at the hotel. Celebrated mystery writer Gary Indiana is spending a long, reclusive holiday in Room 214. And his next-door neighbour Kevin will tell anyone who'll listen that he's been struck by lightning three times and was kidnapped in the Philippines for dating one of the Marcos's granddaughters.

> **'YOU WILL meet more Canadian actors in three months than you do in a year in Toronto or Vancouver'**

Fascinated by this mix, Highland Gardens roommates Markle, 33, and Hirsh, 32, have filmed pilot season at this surreal oasis for a documentary they call *Camp Hollywood* (which airs on Star! Nov. 19 and early next year on Bravo). While it shows beautiful people living, swimming and partying together, the film does a good job of debunking the Hollywood dream. Here's a group of Canadian actors, successful back home, choosing to live in a sleazy place where cockroaches have been known to visit, praying that they'll land something bigger. All they have is each other in what Hirsh refers to as a "city of illusion." "It's also a city of bullshit," says Markle. "When I came to L.A., I was expecting to hear 'No' a lot. But everyone says 'Yes,' because you never know who's going to be the Next Big Thing. I've had people look me in the eyes after a show and say, 'I've never been so blown away in my life. From here, you and I are going to be best friends.' And then never hear from that person again."

Markle, an aspiring stand-up comic, quit his 9-to-5 job directing promos for Alliance Atlantis Communications, bought a big white Lincoln, and came to L.A., planning on living at the Gardens for two months. But his stay kept getting extended as he landed a top agent at William Morris, moved his act from coffee houses to the legendary Hollywood Improv and even won a lead role in an Ashton Kutcher-produced pilot for MTV. (He was later replaced.) "I'm many thousands of dollars in debt," says Markle, who is using credit cards to keep him at the hotel. "The kind of debt you'd have if you were to go to law school. That's the way I'm looking at it—like I've gone to showbiz school. But

PHOTOGRAPH BY GILLES M NGASSON/GETTY



unlike law school, there's no guarantee that you are going to see that money back." Hirsh breaks in: "Here's a question, have you not had the best time of your life?" "Yes," says Markle, "I've never been poorer and never been happier."

Optimism is a little easier for Hirsh, though. The handsome Montrealer is considered a veteran at the Gardens, one of the more successful residents. He's even the star of the series *Naked Josh*, which just finished its first season on Oxygen in the U.S. and Showcase in Canada. But he could also use a big network show, and each year he comes really close to grabbing one. This time it was *Eyes* (a mid-season replacement for ABC, about a high-tech private investigation firm). "I locked myself inside for two weeks prior to the network screen test," says Hirsh, who had he landed the show, would have made US$80,000 for the pilot and US$35,000 each episode. "When I got there, it was down to me and two other guys. They were both older and much different. I had a good audition. I came home, ate a quart of ice cream and lay on the ground with the phone in my hand, waiting. I usually don't do that—you don't want to be that actor guy."

The very same day, Nevin lost a role she screen-tested for—in Fox TV's *North Shore*. "I was going to go to Hawaii for three weeks to shoot a pilot," sighs the 21-year-old blond, before explaining what went wrong. "Between my last audition and the network screen test, the casting people said, 'Brooke, we love your head, you're great, but you need to show more belly. Wear something tight, low-riding and high-riding.' That's all code for we'd like to see your boobs." Nevin, who admits she's not "fantastically endowed," went on a shopping spree, picking up a padded bra at Frederick's of Hollywood. But it wasn't enough. "Now I have to return the things I couldn't afford. I thought, 'If I got the show, I'd keep all these clothes.'"

But Hirsh and Nevin put on a happy face and went out to celebrate the engagement of their close friend and neighbour, Chetnick, who had just proposed to his visiting girlfriend—in between auditions. Chetnick's one of the busiest actors at the Gardens, with a stack of scripts on his kitchen table. But he's not getting as many callbacks as he'd like. Meanwhile, he's got an enviable career writing, producing and/or starring in Canadian independent films. So why go through this yearly heartbreak? "I don't have an answer," says the 31-year-old Winnipeg native. "It's almost a magnetic force that L.A. has on actors." This past year, he persuaded Balaban, his co-star in the Canadian film *Seven Times Lucky* (a hit at the Sundance Film Festival which opens next spring), to room with him and give pilot season a shot. Little did he know how different her experience would be.

When Balaban was picked for the lead in the Nova Scotia-set Canadian hit *New Waterford Girl* back in 1998, she had acted only in school plays and played a corpse in a student film. Since then, she's been invited to Francis Ford Coppola's estate for a reading and had an audition with Anthony Minghella for Natalie Portman's role in *Cold Mountain*. While in L.A., she's been going out on TV auditions like everyone else, but she's also having meetings with directors like Terry Zwigoff and Brian De Palma for feature films. "Liane is just on a different playing field," says Chernick. "She's a movie star."

For Balaban, pilot season is more vacation than stressful career-maker—and it's a chance to collect stories. "I was waiting in the lobby of ICM to meet my agent and this man in tinted glasses and a bolero started chatting me up," she says. "He had a really raspy voice and we were bonding over the fact that neither of us carried cellphones or business cards. I thought he was a voice actor and thought, 'It's great, he's old, but he's still working.' I have his phone number now and he has mine." The guy turned out to be legendary director and unrepentant ladies' man Robert Evans. "I was whisked away by my agent who said, 'We'll be sure to keep you away from him.'"

At the end of pilot season last spring, Nevin booked a job on a USA Network sci-fi series, *The 4400*, and was sent to Vancouver for the shoot. The others went back to a warm welcome in Canada—Chetnick got funding to star in a film he co-wrote and is co-producing, Hirsh returned to Montreal to film the second season of *Naked Josh*, and Balaban got behind the camera, co-directing a video for the Montreal rock group the Stills. And after a year and a half, Markle went back to work at Alliance Atlantis. "I told myself, 'Once I hit $30,000 in debt, I'll leave,'" he says of his extended Highland Gardens stay. "But at that point I got an agent. So I said, 'At $50,000 I'll go,' but then there was interest from HBO and Comedy Central. At $85,000, I had to pull the plug. I think it's a pretty common story, people get trapped at the hotel. It's like a casino, you see one person succeed and it keeps you seated, keeps you playing." The next pilot season is only a couple of months away, and the whole gang plans to go back. Even Markle—"But only for six weeks this time, just to show I'm still in the game."

THE GARDENS' STORIED PAST

Just about everything, including a rock diva's fatal OD, seems to happen there



JANIS JOPLIN



JEFF BUCKLEY



MAURY CHAYKIN

THERE'S a summer camp-like atmosphere—'instead of Canadian actors doing coke, they're playing Boggle'

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BOYS JUST WANNA HAVE FUN

Two animated features and a remake revel in arrested development



BOYS WILL BE BOYS, and age, it seems, has nothing to do with it. Take these three new movies about boys and their toys. Two are animated—*The Polar Express* is about a kid growing up too fast who rescues his inner child on Christmas Eve; *The Incredibles* is about a paunchy superhero who leaps from mid-life crisis to second childhood. Then there's *Alfie*, about a Peter Pan lothario who goes through women like licorice Allsorts. Three boy stories about the joys of immaturity, reviewed in ascending order of the ages they're geared to.

I don't know about you, but in mid-October, I'm not even close to being in the mood for Christmas movies. Hollywood, however, has other ideas. And as it launches its first volley of holiday product, it's hard not to feel some grouchy skepticism. Fables designed to banish our inner Scrooge and instill faith in the spirit of Christmas can go either way. Last year's *Elf* was corny beyond belief, but by the end of it, despite my best intentions, tears flowed like tinsel as I revisited that childhood desire to will Santa Claus into existence. The shabby irreverence of *Elf*—a literal diversion—is what allowed the sentiment to sneak through. But when faced with the more earnest mission of The Polar Express, a spectacle that tries so hard to manufacture belief, I feel I'm being railroaded by the Christmas spirit.

Now, perhaps my resistance has something to do with the fact that I previewed *The Polar Express* the day after the bi-polar American electorate had thrown its faith behind the runaway presidency of George W. Bush. But I get immediately suspicious when a conductor—even of a fantasy train—declares, "It doesn't matter where the train is going, what matters is deciding to get on." Huh?

Hanks 'plays' five key roles, including the conductor, in *The Polar Express*

Based on a 1985 story by Chris Van Allsburg, *The Polar Express* revolves around a boy who's losing his faith in St. Nick. As he falls asleep on Christmas Eve, he's whisked away on a midnight train to Santa's workshop. Director Robert Zemeckis hitches this old-fashioned fable to a cutting-edge engine of computer animation. Zemeckis has pioneered the interface between live action and animation in films such as *Who Framed Roger Rabbit* (1988) and *Forrest Gump* (1994). With *The Polar Express*, he's forged a groundbreaking fusion. The movie's animated characters are digital versions of flesh-and-blood actors, whose movements have been traced with digital sensors. The technique, christened Performance Capture, allowed Zemeckis to cast his favourite actor, Tom Hanks (*Gump*, *Cast Away*), in no less than five key roles—as the hero boy, his father, the train conductor, a phantom hobo and Santa himself. Although Hanks does an admirable job, you have to ask why he needs to play all those parts—it's a fine line between virtuosity and megalomania.

But there's a storybook beauty to the snowy, dreamlike landscapes. Santa's industrial North Pole is a Byzantine marvel—even if it's like a *Triumph of the Will* theme park, with massed legions of elves heralding his grand entrance. Most thrilling are the action scenes. There's a wonderful sequence of the boy and the hobo skiing down the carriage roofs as the train turns into a roller coaster, and another of it snaking across a sea of collapsing ice. The images have a swooping 3-D quality, a sense of vertigo that will be enhanced in actual 3-D versions of the movie being released in IMAX theatres.

Yet there's something zombielike about the characters, as if they're stuck in an eerie limbo between animation and live action. Strangely, their verisimilitude makes them seem less real, like animatronic dolls. And it doesn't help that the hero's kiddie companions on the train are a posse of stereotypes—from the bratty science nerd to the Tiny Tim runt, they're all boys except for one all too-perfect black girl with big green eyes.

The Incredibles features more cartoonish faces, but it's much easier to embrace them as fully rounded characters. Created by Pixar, the folks behind *Toy Story* and *Finding Nemo*, it's their first movie devoted to humans. And it's terrific—a zippy, witty animated feature that transcends the genre with eye-popping action and art design. Think

COURTESY OF WARNER BROTHERS; COURTESY OF BISNEY (FOLLOWING PAGE)



of it as *The Simpsons* meets James Bond. It was, in fact, written and directed by *Simpsons* veteran Brad Bird.

The Parrs are a family of superheroes, each with supernatural powers. Frivolous lawsuits force authorities to mothball these masked crime fighters, who disappear into a superhero relocation program. Fifteen years later, Bob/Mr. Incredible (voiced by Craig T. Nelson) is punching the clock in an insurance firm. Helen/Elastigirl (Holly Hunter) is a suburban housewife, with a delinquent son and shy daughter who have to keep their own superpowers undercover.

One day a mystery woman lures Bob out of retirement for a deadly mission on a tropical island. Soon he's leading a double life, trying to lose his gut, and consulting a Germanic fashionista about a new costume. ("No cape!" she hisses.) Bob's wife is alarmed by his mid-life mania—"the sports car, the getting in shape, the lies"—but she and the kids soon join in saving the world from an evil genius (Jason Lee) and his robot army.

Visually, the movie is a pop masterpiece of retro modernism, with a score influenced by the stealth jazz of Henry Mancini (*The Pink Panther*) and the brassy Bond signatures of John Barry. The movie's wit, and frenzy, may be too much for small children. But this is the coolest action movie since *Spider-Man 2*, and a reminder that nothing's more sophisticated than a smart cartoon.



With its superhero family, *The Incredibles* is like *The Simpsons* crossed with James Bond

Alfie, another retro adventure in style, is a remake that's better than you might expect. Thirty-eight years after the original, Jude Law reprises the Michael Caine role of the working-class playboy. He's still an English limo driver, but has been transplanted from London to contemporary Manhattan, and the brash Cockney has morphed into a sensitive metrosexual—one part Caine, two parts Hugh Grant. Smoothly directed by Charles Shyer (*Father of the Bride*), the movie plays like a male *Sex and the City*, a promiscuous montage that retains the device of Alfie constantly turning to the camera to explain his conquests (a bevy that features Marisa Tomei, Sienna Miller and Susan Sarandon). Law brings dimension to a vast but shallow role, finding oases of emotional depth amid the swagger. *Alfie* is a likeable confection, sweetened by original music from Mick Jagger and Dave Stewart. But as a male fantasy that flirts with real drama, it suffers the same weakness as its hero: a failure to commit.

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ALAN HOLLINGHURST

BEAUTIFUL DREAMERS

American literature has taken an expectedly political turn, while British writers love Henry James

YANN MARTEL'S 2002 Man Booker Prize win for *Life of Pi* marks a high point in Canadian fiction's recent run of international success. Since that book of universal themes, CanLit has, for the most part, stayed true to its inward-looking nature. Many of the novels most celebrated at home have been the kind that don't travel easily—deeply interior pieces about particular communities such as Miriam Toews' Manitoba Mennonites or the Vancouver Chinatown traced by Wayson Choy. Elsewhere in the English-speaking world, American fiction has taken a sharp political turn, unsurprising in a nation fissured by an ugly war. Major works like Philip Roth's alternate Second World War story, *The Plot Against America*, and *War Trash*, Ha Jin's tale of Chinese POWs during the Korean War, look to a past that exhibits eerie parallels with the present.

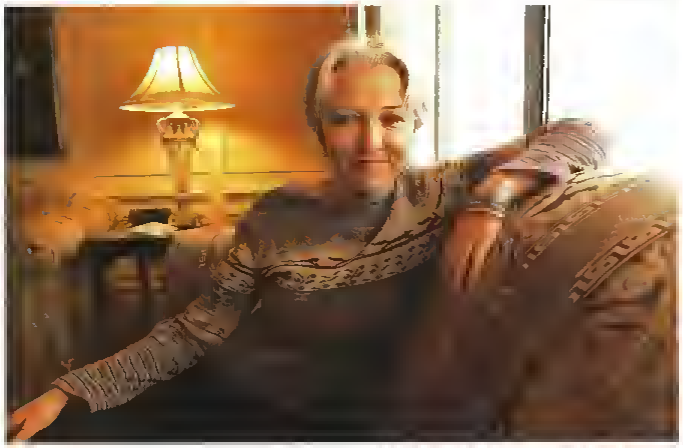
There's no such ready explanation, however, for the thrust of recent British and Irish literature. Dominant again—after several years of being lapped by colonial upstarts—in the run for the Booker, the premier award in English-language literature, British fiction is celebrating the aesthetics and history of literature. Susanna Clarke's *Jonathan Strange & Mr Norrell* is as much a tribute to two centuries of English prose as it is an engrossing narrative of two rival magicians in Napoleonic-era Britain. Meanwhile, *Cloud Atlas* by David Mitchell is, among many other things, a tour-de-force demonstration of writerly technique. And, most remarkable of all, three major works exhibit a common obsession with the great American novelist Henry James (1843-1916). Two of the Jamesian tributes made the Booker short list, and one of them won the $112,000 prize. **The Line of Beauty**, by Alan Hollinghurst, a study of a James-obsessed gay man during the high noon of Thatcherism.



THE LINE OF BEAUTY
Alan Hollinghurst, Raincoast, $34.95

The 50-year-old Hollinghurst can no more explain the sudden eruption of interest in James than anyone else, but neither is he, deep down, truly surprised by it. After all, James is The Master, Hollinghurst says, using a common honorific for the writer that is also the title of Irish fellow Booker nominee

PHOTOGRAPH BY DONALD WEBER



Clarke's novel, full of nods to past writing greats, is about the pure pleasure of reading

Colm Tóibín's fictionalized biography James, Hollinghurst says reverently, possessed a perfect mixture of "the tenderness and ruthlessness a great novelist needs. And we're all invoking him for different reasons this year. I was writing about a Jamesian milieu."

Into that milieu comes Hollinghurst's protagonist, Nick Guest—the surname is no accident—a 20-year-old middle-class innocent in 1983 when he moves into the London mansion of Tory MP Gerald Fedden. A friend of the Feddens' son Toby, Nick cements his place by becoming semi-official minder of the family's other child, the manic-depressive Catherine. For four giddy years between Thatcher re-elections, Nick floats in the wake of the family's ascent, sometimes working on a thesis about James, but mostly pursuing risky sex, cocaine and beautiful surroundings as diligently as the crass Feddens seek power and money. When disaster strikes in 1987, in the form of a Gerald Fedden sex scandal, it engulfs Nick too as the family inevitably turns on him.

Hollinghurst was neither surprised nor troubled by the near universal gay novel wins media response to *The Line of Beauty*'s Booker victory. "It's the tone that matters, you know," he remarks dryly. "I'm afraid none of the headlines included 'at last.' And the *Daily Express*'s was actually 'Booker won By Gay Sex.'" The sex issue, in fact, vexes the author far more than the gay emphasis. After three previous and highly explicit novels, Hollinghurst genuinely believed he had toned it down this time. But reaction to *The Line of Beauty* has made him realize his idea of toned-down still seems to many readers like a lot of sex crazed men, even if some of them are heterosexual.

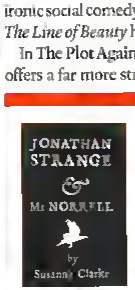
Their number includes Gerald Fedden, who carries what one British critic has described as an "engorged admiration" for his prime minister. His infatuation, fired as much by the Iron Lady's aura of ruthless power as her personal charms, brings to mind François Mitterrand's famous description of her as having "the eyes of Caligula and the lips of Marilyn Monroe." The finest scene in *The Line of Beauty* describes Thatcher's arrival at a reception and the preening behaviour of the Tory grandees literally dancing attendance on her. It may not be Henry Kissinger but Margaret Thatcher who was the 20th century's most apt embodiment of the maxim that power is the ultimate aphrodisiac.

Aside from all the sex, the famously repressed Henry James would have been right at home in Hollinghurst's wonderfully nuanced world. Not only is Nick a Jamesian figure, so seduced by the glamour and luxury of his circle that he forgets he's only part of it on sufferance, but Hollinghurst writes with a languid grace equal to The Master's own. His intelligent prose is sinuous and subtle in equal measure. As an ironic social comedy and novel of manners, *The Line of Beauty* has few peers.

In The Plot Against America, Philip Roth offers a far more straightforward narrative in his chilling piece of alternative history. The story has Charles Lindbergh, aviation hero and Nazi sympathizer—a man who thought an unholy cabal of Jewish and British interests was trying to drive the U.S. into war—defeating Franklin Roosevelt in the 1940 presidential election. Philip Roth, a character in his own novel (a fictionalized autobiography), tells what it was like for the frightened Jews of America during the pogroms that occur under the Lindbergh presidency.

Roth touches on the absurd when he starts speculating on the reasons for Lindbergh's anti-Semitism. But the election and its aftermath, especially the Roth family's moving drama, are far more plausible. The novel begins with a bang before meandering to its conclusion, but the writing is powerfully simple and cogent. In a *New York Times Book Review* essay, Roth advised readers not to see *Plot* as "a *roman à clef* to the present moment in America." But there is no other way to take his less than subtle themes, particularly his warning about electing a self-righteous, morally absolute, president.

There are no discernible political messages, subtle or in-your-face, to be found in Susanna Clarke's Jonathan Strange & Mr. Norrell. Her tale of two magicians who fight, first against Napoleon, then against each other, is a glorious sprawl of a novel. There is magic, of course—a tedious, costly and strangely believable business. Visitors from the otherworldly realm of Faerie and cathedral statues that suddenly speak, denouncing murders that occurred before them centuries



JONATHAN STRANGE & MR. NORRELL
Susanna Clarke
Raincoast
$29.95



THE PLOT AGAINST AMERICA
Philip Roth
Thomas Allen
$36.95

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ago, come to seem as much a natural part of the times as Royal Navy frigates or candlelit salons. Far more dazzling are Clarke's recurrent nods to almost every giant of 19th-century prose.

The advance buzz trumpeted her book as Harry Potter meets Jane Austen. While Clarke has penned numerous needle-sharp sentences worthy of Austen ("Even his dearest friends would have admitted that he possessed not a single good quality"), there is far more Dickens in her book, and even a trace of P. G. Wodehouse. The latter is evident in her treatment of the British cabinet brief, accurate sketches of historical figures that still make them sound like befuddled Lord Emsworths as they querulously debate who—Horatio Nelson or William Pitt—should be raised from the dead.

Some critics, somehow managing to be both correct and to completely miss the point, complain that very little happens in *Strange*'s 782 pages. Exactly. Entrancing footnotes that meander through the history of English magic, charming subplots that go nowhere at all, and painstakingly drawn portraits of unimportant characters are the very essence of Clarke's beguiling hymn to the pure pleasure of reading.

David Mitchell's **Cloud Atlas** is the novel bookies thought would win the Booker. They didn't seem to have noticed that its reception gave new meaning to the phrase "mixed reviews." That normally indicates a ho-hum reaction, but in Mitchell's case it ranged from raves worthy of *War and Peace* to the *Daily Telegraph*'s statement that it would not run a review because its critic found the book "unreadable." Both sides exaggerate. *Cloud Atlas* is flashier than it's deep, but there is still plenty of there, there.

In rapid fashion Mitchell plunges into a journal-based story about a ship off New Zealand in 1850, an epistolary tale about a roguish British composer in Belgium between the wars, what the author calls an "airport novel" set in 1970s California, a present-day memoir about a book editor stuck in an old folks' home, a near-future piece consisting of an interrogation in Korea of a genetically engineered "fabricant" suspected of the crime of wanting to be human, and a fireside tale set in post-apocalypse Hawaii. The stories are all linked, one way or another—the composer, for instance, finds pages of the New Zealand journal in Belgium, and the man with whom he is corresponding sets the California plot in motion. Then, for his next trick, with the exception of his Hawaiian centrepiece, Mitchell provides a second instalment of all of the above, in reverse order.



When Mitchell finds a story that matches his talent, the result will be truly spectacular

Mitchell's craftsmanship, which may be without peer anywhere, is astounding. He can evidently dream up any scenario, demand any technique from himself—a faux 19th century journal, a sci-fi thriller, whatever—and pull it off flawlessly. But the end result, disconcertingly, is a novel somewhat less intelligent than its author. Despite the fine prose and the striking images with which Mitchell pulls together his incisive commentary on the links between colonialism, consumerism and environmental degradation, *Cloud Atlas*'s overarching theme—mankind's endless march of folly—has been done many times before. And the novel was too self-evidently conceived of as a writerly challenge. If Mitchell ever finds a story demanding to be told that matches his gifts, the result is liable to be truly spectacular.

Ha Jin's **War Trash** opens in the present. Yu Yuan is in Atlanta, visiting his son and looking back a half century on his first stint as an American guest, when he was a Chinese army POW in Korea. In a stripped-bare narrative, miles away from Mitchell's pyrotechnics, Jin tells how Yu's English-language skills—his ability to intervene with the frightened and unhappy GI guards—posed him precariously in the centre of a hellish civil war among the prisoners. On one side are Nationalists, led by a man who publicly guts and dissects one of his enemies; on the other, Communists, whose commander tries to use Yu for his own security. All Yu wants is what all soldiers, guards and prisoners, victors and vanquished, want: to go home. All he can do is survive, wait and ponder the bloody uselessness of it all.

There are echoes, of course, of Abu Ghraib, but Jin, an expatriate Chinese master of English prose who won the 1999 National Book Award, is not as focused on the present as Roth. Jin's aim is to lift Yu, and all his fellow war trash—Chinese and American—from history's garbage can, and restore the humanity long ago taken from them. By his careful accretion of personal details, and objective recording of kindness and atrocity, he succeeds brilliantly. M



CLOUD ATLAS
David Mitchell
Random House
$24.95



WAR TRASH
Ha Jin
Random House
$35

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PLAGIARIZE AT YOUR PERIL

Someone like me may have written that term paper you just bought

ONE OF THE ODDEST job offers I ever received came when a stranger telephoned to ask if I would be interested in researching and writing academic papers for university students. For the uninitiated, so-called "paper mills" sell term papers and essays to desperate students who hand them in as their own work. Many people picture the mills as a low-rent operation run out of someone's basement. Maybe in the days of bell-bottoms and peace symbols, but not anymore. Thanks to the Internet, email and fax machines, academic plagiarism is easy—and big business.

My first reaction to being invited into the world of cyber-cheating was annoyance that the resumé I had posted on an Internet writer's forum hadn't produced anything more concrete in the way of an actual assignment. I nearly slammed down the receiver. But I hesitated—an idea was forming in the back of my mind. Perhaps I could strike a blow for intellectual honesty. I asked the man for more details and tried to feign interest as he explained that they provided term papers in all subjects and at all levels. "We even helped a student write his doctoral thesis," he bragged.



Eventually, I heard myself agreeing to take on a project. The topic was economics, a subject I'd struggled with for one semester when I was an undergrad before dropping it with relief. But that was okay, since I had no real intention of writing the paper.

Moments later my fax machine burped out the details of my first assignment, including the economics course's name and number. More information than I'd expected and, I hoped, enough to get results. Now it was time to get to work. Thanks to caller ID, I knew the province and even the general area the man was telephoning from. I suspected that most of the paper mill's "clients" attended one of the two major universities located there. A quick search on the Internet brought up the home pages of both institutions and, sure enough, I found an economics course number matching the one on my assignment.

Now the only question was how to proceed. Should I telephone the instructor listed as teaching the course? The mere thought of trying to explain the situation to someone I'd never met seemed overwhelming. I opted instead for a lengthy email. The next few days after I sent it were torture. To keep up the pretense I was actually working for the paper mill, I agreed to take on a second assignment, this time writing an essay for a course in what had been my major, political science. Meanwhile, the reality of what I'd done was sinking in. For all anyone knew, I had voluntarily entered into a relationship with an organization that existed solely to help students cheat. Nothing to interest the RCMP, but I had visions of the powers that be at my alma mater swooping down and plucking my master's degree from its position of pride on our family room wall.

Five anxious days later I received a telephone call, not from the economics professor, but from the dean of the faculty. The university was taking the matter very seriously and he asked for my help. I would complete the first assignment, sending one copy to the paper mill and a second copy to the professor. If a student handed in a paper identical to mine, the professor would know it was plagiarized and pass the information up the academic chain of command.

At this point I had to explain that I didn't know enough about economics to actually write the paper. I thought that would be the end of the matter, but I was wrong. A short time later, the university's dean of arts called to ask whether I would write the political science paper. Despite a few nervous twinges, I said yes. Now I had to put whatever acting skills I possessed to good use. I telephoned my contact at the paper mill and, apologizing profusely, explained that I was in over my head with the economics assignment. At the same time, I made it clear I wanted to complete the poli-sci paper. I must have sounded sincere because he agreed.

To make a long story short, I faxed the completed paper—five pages discussing Canada's 1992 proposed rape shield legislation—to the university and my paper mill contact. A few days later, one of the graduate teaching assistants for the political science course received a paper virtually identical to mine. The student who submitted it eventually went before an academic tribunal. Faced with the evidence, he had no choice but to admit his guilt. His penalty: suspension for one academic semester.

I never heard from the paper mill again. I'd like to think that our sting operation put a serious damper on their business, but I doubt it. Each year there is a new wave of stories about plagiarism running rampant on university campuses. Still, if my action makes even a few students think twice before passing off another person's words and ideas as their own, it will be worth it.

Rhonda Lauret Parkinson is a Calgary writer who donated her $140 payment from a paper mill to her university's political science department. To comment, overtoyou@macleans.ca

ILLUSTRATION BY SHARY BOYLE



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BACKTALK

John Intini's Sentences 138 | Bestsellers List 138 | Money's Worth 142



All you ever wanted to know, but were much too afraid to ask

Lee welcomes you to *Tommyland*. Enter at your own risk.

The way **Tommy Lee** bounces around his hotel suite, you'd think he has a permanent drumbeat pounding in his head. Turns out, it's just a nicotine fit. Having smoked away his last three Winstons in the past 15 minutes, he's forced to call room service for a fresh pack. The cigarettes, he says, help to keep things calm during the media circus surrounding his just-released tell-all, *Tommyland*. "I can turn on a switch in front of thousands, but stick me in a room with 10 people and I don't know what to say," says Lee, 42, who enrolled at the University of Nebraska this fall as part of a new reality show planned for next summer. "I'm actually really shy."

Well, not according to the autobiography. It starts with a crude introduction (a dialogue between Lee and his penis), then gets frank about his love life (with former wives **Heather Locklear** and **Pamela Anderson**), jail time, the drowning of a four-year-old boy at his home, and his father's death. "When you're a celebrity, people only get little blips of who you are and it's mostly untrue," he says. "This is my chance to get the truth out." The question is, will readers be able to handle it? JOHN INTINI

'He's participating and doing a lot of studying outside of class. He's jumped in with both feet.'
—University of Nebraska horticulture professor **Richard Sutton**, about his most famous student

BUZZ LIST



The studio says it's moving the release up a week (Nov. 12) because early-screening buzz is so positive. We say it's because no one wants to go head-to-head with *The SpongeBob SquarePants Movie* (Nov. 19)

TOMMY LEE
From rocker to author? Drummer pens memoir

He's winning raves as a shrink in the new series *Huff* (TMN). But he'll always be the ex-**Mrs. Helen Hunt**/voice of Chief Wiggum/Nat the dog walker to us



No, this isn't some cross-genre cat fight. It's just that both their albums—Neko's live CD and Brit's greatest hits collection—come out this week. But if it were a brawl, Case, the honky-tonk wonder, would kick ass.

A two-hour reminder (Nov. 14 and 19) that your boss isn't that bad.

Bonehead-move-of-the-week award goes to Ashlee's older sis for passing up a 7-Up endorsement deal in hopes that Pepsi or Coke will offer something more lucrative. To be fair, holding out has worked for her in the past.

PHOTOGRAPH BY REGINA GARCIA COURTESY OF MIRAMAX, COURTESY OF MINT RECORDS



War | Saving Cpl. Topham's Victoria Cross

How much is history worth? The 1st Canadian Parachute Battalion Association thinks about $275,000. That's what is needed to buy Cpl. Fred Topham's Victoria Cross—the Commonwealth's highest military honour—in his upcoming estate sale, and ensure that it doesn't end up in a foreign collection. Topham, who died in 1974, was a medic from Toronto who risked his life to tend the wounded during the bloody fighting at the Rhine crossing in 1945. "We only ever hear of British and American heroes," says Jan de Vries, the association's president. "Topham was an honest-to-goodness Canadian hero." (For donation information: *www.qor.com/topham.html*).

JOHN INTINI

Jeremy Ratchford | It takes one (tough TV cop) to know one



Before **Jeremy Ratchford** got the role of tough-guy confession-getter Det. Nick Vera on the hit police drama, *Cold Case* (CBS/CTV), he put in his time on Canada's *Blue Murder* and guest-starred on *NYPD Blue* and *CSI*. So we asked him for a list of TV's greatest cop shows.

1. *Homicide: Life on the Street* "That was the first one to kind of go raw. And **Andre Braugher** was unbelievable. It was almost too close to reality for me to think of as a TV series."
2. *Barney Miller* "What a great ensemble cast."
3. *Cops* "Yeah, the reality series. The bad guys are funny as hell in those shows."
4. *Hill Street Blues* and *NYPD Blue* "A tribute to The Man, Dennis Franz."
5. *Miami Vice* "It was funny and was the first one to really use the music. When I heard Phil Collins' *In The Air Tonight* in that opening episode, I was like, 'Yeah, this is rock 'n' roll. Whoa.' "

SHANDA DEZIEL

CABBAGE PATCH KID DOLLS IN THE LIKENESS of John Kerry (US$1,225) and George W. Bush (US$1,030) were sold on eBay last week.

Mascots | And the award for creepiest pitchmen goes to ...

While most companies opt for non-threatening product mascots, every once in a while a retail rebel tries to be original (code word for creepy). Lee Jeans recently rebranded and by doing so joined the ranks of freaky product pushers with Buddy Lee—the farm boy meant to embody "strength, durability and integrity." Here's a look at the denim-and-plaid-clad doll and other scary mascots in recent memory. J.I.

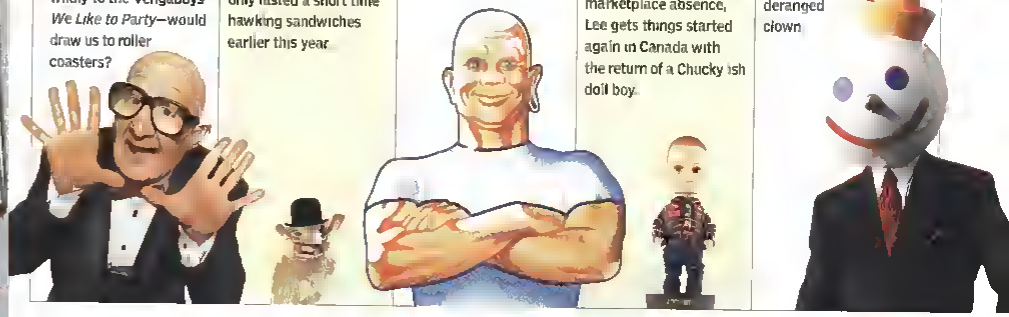
SIX FLAGS' DANCING FREAK
Watching gramps bust a move at your cousin's wedding is tough. So who thought a bald senior in a tux dancing wildly to the Vengaboys' *We Like to Party*—would draw us to roller coasters?

QUIZNOS' SPONGMONKEYS
And you thought Jared from Subway was scary. It's no wonder this deformed hamster (that's what it is, right?) only lasted a short time hawking sandwiches earlier this year.

MR. CLEAN
Not even neat freaks feel comfortable around this guy.

BUDDY LEE FOR LEE JEANS
Let's get this straight. Guess, Levi's and Calvin Klein get sexy models to pull on their denim. But after a six year marketplace absence, Lee gets things started again in Canada with the return of a Chuckyish doll boy.

JACK FOR JACK IN THE BOX
Lucky for us, these burger joints aren't in Canada, lessening our chances of meeting this deranged clown.



PHOTOGRAPH BY LORNE BRIGGMAN (TOP)





PHOTOGRAPH BY PETER BREGG/MACLEAN'S

Dennis Lee finishes John Intini's sentences

Dennis Lee is a pretty intense guy—strange, considering his claim to fame is writing the kids' classic *Alligator Pie*. But it does explain his award-winning, and very dark, adult poetry. Toronto's former poet laureate tones things down a bit in his latest work, *So Cool*—a book of cheeky verses for teens. Lee, 65, finished *Maclean's* Assistant Editor **John Intini**'s sentences.

WHEN I CAN'T SLEEP I play solitaire or do cryptic crosswords. And since I'm an insomniac that's every second night.

THE ACTOR I'D LIKE TO PLAY ME IN A FILM ADAPTATION OF MY LIFE is **Kevin Spacey**. He's an ordinary looking guy with some unexpected quirks. I'd love to say **Sean Penn**, but he has a more dangerous presence than I do.

MY LAST MEAL WOULD BE a dish of lamb and-spinach curry with a glass of Spanish rioja—a full-bodied red wine.

I KNOW TOO MUCH ABOUT spam, telemarketers and postmodernist theory. Not necessarily in that order.

I NEVER TELL ANYONE my deepest feelings of joy and my deepest feelings of despair. I barely tell myself.

THE BANNING OF BOOKS... in principle? Never. But then you read some things that make your blood run cold. It's just that they always ban the wrong books.

MY FASHION STYLE is a cross between the Sally Ann and a train wreck.

FOR MORE "JOHN INTINI'S SENTENCES" VISIT WWW.MACLEANS.CA/PEOPLE

ESSENTIAL LEE

1. He worked at House of Anansi Press in 1967 and was the editorial director until 1972.
2. *Civil Elegies and Other Poems* won the Governor General's Award in 1972.
3. Spent four years writing for *Fraggle Rock*, Jim Henson's popular kids' show between 1983 and 1987.

VANCOUVER PAINTER E.J. Hughes sold *Fishboats, Rivers Inlet* for about $100 in 1951. It's expected to fetch as much as $500,000 at auction on Nov. 25.

Books | Love and espionage in France

Montreal-born Shauna Singh Baldwin's second novel, *The Tiger Claw*, fictionalizes the life of Noor Inayat Khan. A nationalistic descendent of Tipu Sultan, an Indian ruler who had fought against the British Raj, Khan nonetheless became an Allied agent in occupied France during the Second World War. The startling story of an upper-class Muslim woman, who risked her life to serve India's colonial master while also searching for her lost Jewish lover, fascinated Baldwin since she first heard it. The Giller Prize jury, which shortlisted the novel for this year's award, was intrigued by *The Tiger Claw*'s deliberately drawn parallels with post-9/11 America—not the fight against a ruthless enemy, but the locking up of people without charge or trial, the crackdown on non-citizens' rights, and judicial impotence in a time of war fever. But the Giller judges also liked *The Tiger Claw* as a novel, including its wartime spy story suspense and its evocative recall of a vanished era.



THE TIGER CLAW
Shauna Singh Baldwin
Knopf; $34.95

BestSellers

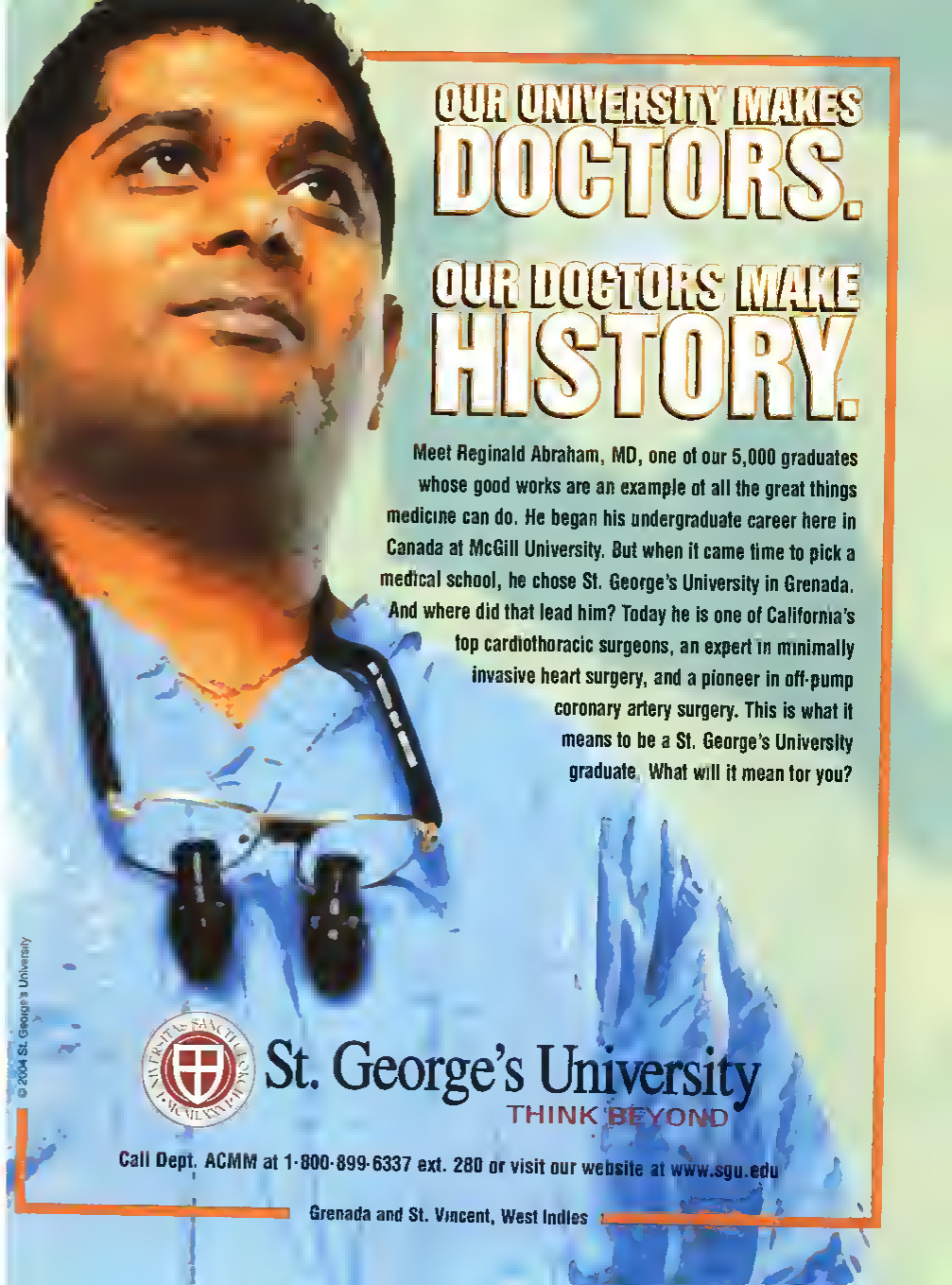
Fiction

		POSITION LAST WEEK
1.	**A COMPLICATED KINDNESS,** Miriam Toews (20)	4
2.	**THE LINE OF BEAUTY,** Alan Hollinghurst (2)	2
3.	**THE SUNDAY PHILOSOPHY CLUB,** Alexander McCall Smith (4)	1
4.	**RUNAWAY,** Alice Munro (6)	3
5.	**THE DA VINCI CODE,** Dan Brown (78)	5
6.	**ALL THAT MATTERS,** Wayson Choy (4)	6
7	**THE MEMORY ARTISTS,** Jeffrey Moore (1)	
8.	**THE FIVE PEOPLE YOU MEET IN HEAVEN,** Mitch Albom (42)	9
9.	**ADULTERY,** Richard Wright (5)	7
10.	**BIRDS WITHOUT WINGS,** Louis de Bernières (13)	8

Non-fiction

1.	**EATS, SHOOTS AND LEAVES,** Lynne Truss (26)	1
2.	**WORTH FIGHTING FOR,** Sheila Copps (1)	
3.	**CHRONICLES, VOLUME ONE,** Bob Dylan (2)	4
4.	**DARK AGE AHEAD,** Jane Jacobs (22)	7
5.	**CHAIN OF COMMAND,** Seymour Hersh (2)	5
6.	**THE MUSEUM CALLED CANADA,** Charlotte Gray (2)	2
7	**TO RULE THE WAVES,** Arthur Herman (1)	
8.	**THE FAMILY,** Kitty Kelley (1)	
9.	**SHAKE HANDS WITH THE DEVIL,** Roméo Dallaire (49)	9
10	**A SECRET TRIAL,** William Kaplan (2)	10

() Weeks on list
Compiled by Brian Bethune



Lianne George | ON CELEBRITY



Not another pop star pity party

Lately, celebs have been letting us know, in song, just how hard it is being famous

IN THE VIDEO for Lindsay Lohan's latest single, *Rumors*, the teen dynamo appears, cleavage exposed, writhing in a gilded birdcage and bemoaning the wealth of attention she's been getting of late: *I gotta say respectfully / I would love it if you took the cameras off of me*. It's hard to say *precisely* what makes Lohan's plea for privacy ring so hollow. But it must have something to do with the way, moments later, she appears shimmying her heart out for the camera on a rooftop helipad.

Is it just me, or are pop stars recording songs about how tough it is to be a pop star with alarming frequency? Jennifer Lopez has done it (with *Jenny From the Block*, in which she decries her diva image and defends her right to her hard-earned "rocks"). Britney Spears has done it (with *I'm a Slave 4 U*, in which she asks her fans to just back off and let her dance). And so have the boys of 'N Sync (with *Dirty Pop*, a song heralding the group's perseverance in the face of rampant boy-band bigotry). In fact, this kind of self-referential musical apologia—whereby artists deliver a formal defence of their media antics, and a plea to the public to stop "hatin'," "dissin'" and "talkin' smack"—seems to have become a pop genre unto itself.

If there's one thing that celebrities of all stripes can never seem to grasp, it's that the public has no sympathy for them. Zero. Even with the incessant tabloid scrutiny they undergo, the crooked agents and the constant threat of lurking paparazzi, famous people still seem to have cornered the market on the good life (except, maybe, for poor spork-wielding Martha Stewart). Celebrity is a trade-off that you'd think would be well understood by now: we give them our undying attention, our twisted adulation and our money. And all that we ask in return is that they not complain about it.

For years, stars have appealed to the public for privacy—almost always without success. Gwyneth Paltrow, Sean Penn and Michael Jackson have all repeated some form of Greta Garbo's famous refrain, "I want to be left alone." It never happened. Recently, Sinead O'Connor, the eccentric Irish songstress, took out a full-page ad in the *Irish Examiner*, begging her critics to ease up. "I have been the whipping post of Ireland's media for 20 years," she wrote. "If ye think I am so ridiculous why do ye give me any attention?" Sinead, need ye ask?

It's not that people don't see where embattled celebrities are coming from. (I don't imagine any of us is particularly proud of the way we scrutinize every aspect of celebrities' lives—from their most minute physical flaws to their garbage.) But the truth is, who cares? We should all have such problems. Besides, if these people really wanted their anonymity back that badly, why wouldn't they just use their wads of cash and their private jets to go out and get it?



You want to be left alone, Lindsay Lohan? Easy. Trade in the Range Rover, put away the halter tops, and start singing self-penned political protest songs. It worked for Lauryn Hill.

To comment: lianne.george@macleans.rogers.com

Books | Travel for the trendy

No one wants to travel on $10 a day anymore, not even hipsters. That's why a host of new travel guides are catering to the backpack-less young and trendy, who are tech-savvy and looking for a scene, not just scenery.

Nota Bene
($45 each or $564 for 10 issues a year and access to online updates)
www.nbnewyork.com
NB made its name trashing posh hotels—calling London's famed Sanderson just a "wallpaper showroom." New guides give good info on where to splurge (if $500 suites are your thing), but little about your destination. And the subscription lets you email editors with travel questions.



Directions ($15.99)
www.directionsguides.com
New from Rough Guides, *Directions* has more photos, fewer words. Contributors no longer expound on city history, but offer tidbits like "Top six sights." The book comes with a handy CD-ROM and can be uploaded to a PDA.



A Hedonist's Guide To...
($29 or $11 for online version)
www.ahedonistsguideto.com
Find the secret hot spots in Marrakesh, Lisbon, Madrid, Stockholm, Prague or Tallinn. The guide also gives you access to updated online info about the most happening clubs, restaurants, shops—and even a few cultural landmarks.



KARIN MARLEY

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Money's Worth | Macaroni and cheese

A wealth of varieties for the discerning student

For those of us who attended university in the early '90s, there were only four culinary choices: Kraft Dinner, reheated Kraft Dinner, cold Kraft Dinner, and Kraft Dinner with ketchup. Well, times have certainly changed. These days, supermarket shelves are lined with exciting alternatives. The latest developments in mac and cheese feature a range of flavours, noodles and cheese intensity. While it's true that many of these products taste like wallpaper paste, for convenience, comfort and price, you just can't beat cheesy pasta in a box. To help you wade through the options, we compared six different varieties. JEFF HARRIS

THE VERDICT: Mac and cheese, along with a cold beer, is the Canadian university student's answer to apple pie. But there's a whole world of options out there. Why settle for the usual? After all, isn't spreading your wings what school is all about?

OUR PICK: Annie's Mild Mexican Shells & Cheddar is organic, tastes great, and doesn't have that "radioactive" orange colour. A must for when you have company.

What's in Store

Add a dollop of Wild Country's Organic Curry Ketchup ($4.39) to your meal and what have you got? Instant fusion cuisine. Also available in garlic, hot chili, and regular tomato. Sold in health and organic food stores.





BRAND	PRICE	PREP TIME	TASTING NOTES	RATING
KRAFT DINNER THE ORIGINAL	$.97	9 minutes	You can't go wrong with a classic. Smooth, cheesy texture. It'll remind you of your youth.	★★★★
NO NAME MACARONI & CHEESE DINNER	$.47	9 minutes	Looks and smells good, but lacks taste. Definitely needs extra ketchup. Still, if you're a student on a budget, you can't beat the price.	★★★
PRESIDENT'S CHOICE MACARONI & 3 CHEESES	$2.97	9 minutes (in microwave)	Creamy and flavourful. Browns nicely around the edges. But all of the excess packaging means emptying garbage weekly rather than monthly. And at three bucks a pop, it's not cheap.	★★
KRAFT DINNER EASY MAC	$3.47 (for 6 individual servings)	7 minutes (in microwave)	K.D. for astronauts. The milky-orange colour is off-putting, but the end result is surprisingly tasty. Licked the bowl clean and then made another. (Portions are small.)	★★★
ANNIE'S MILD MEXICAN SHELLS & CHEDDAR	$1.50	12 minutes	The shells—rather than the usual elbow noodles—are a classy touch. Jalapeno and other Mexican seasonings take regular mac and cheese to the next level. Olé!	★★★★★
ROAD'S END ORGANICS DAIRY FREE MAC & CHEESE	$2.49	10 minutes	The brown colour and gummy texture of this whole wheat vegan option are a downer. But the health benefits will put a smile on your face. (It'll disappear, however, when you look at the price on the box.)	★★★★

TIP: For some added pizazz, save some of the powdered cheese and sprinkle it on top of your prepared dish before serving.

For past Money's Worth product test drives, go to *www.macleans.ca/consumer*

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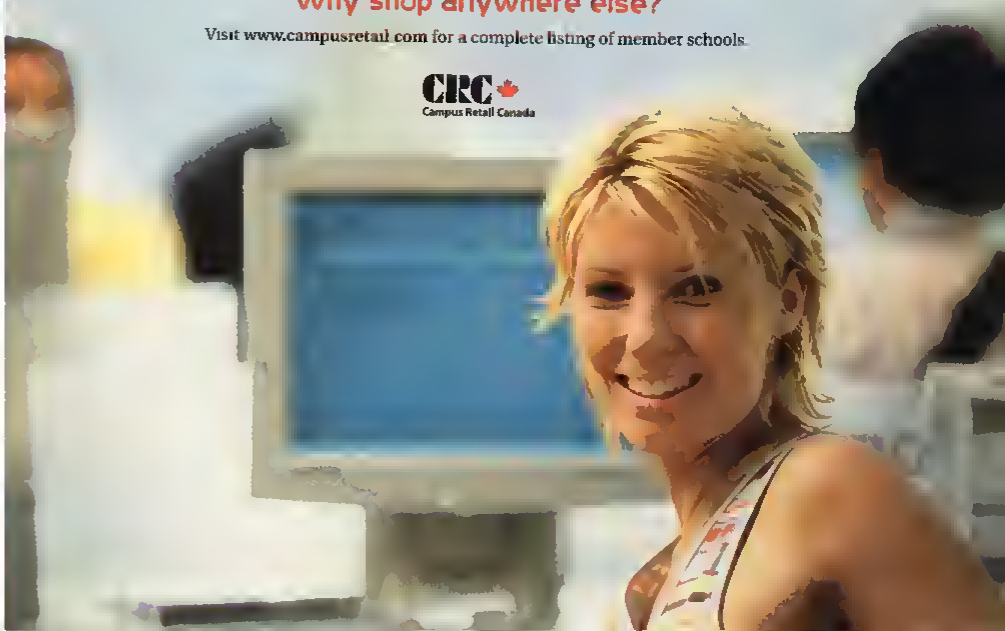
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- **SUPPORT:** Our strong alliances with the School's Information Technology Department and our own technically strong support staff will ensure any problems will be solved quickly and efficiently.
- **WARRANTY SERVICES:** Your Campus Computer Store has access to manufacturer trained and authorized repair services right on campus or through manufacturers' selected national service providers.

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A MIGHTY WIND OF CHANGE

Who would have thought a show about technology could be so giddy?

HALF THE FUN of Bruce Mau's *Massive Change* exhibit at the Vancouver Art Gallery is the way Mau jumps to conclusions. Jump? He leaps with athletic grace. Somehow this isn't a problem so much as it's the show's most attractive feature. Who would have thought a show about technology could be so giddy?

Mau is a Toronto designer whose pop evangelism has bought him the kind of international notoriety you don't normally get if all you do is sketch chairs and toasters. Which helps explain why *Massive Change*, Mau's big manifesto moment, has drawn raves from foreign publications that aren't in the habit of covering Vancouver Art Gallery exhibits. (*Massive Change* will travel to Toronto in the spring before heading on to Chicago and Europe.)



As banners all over Vancouver scream in language that must already have Vancouverites' teeth on edge, *Massive Change* "isn't about the world of design, it's about the design of the world." He's big on slogans, this Bruce Mau. They're splashed on wall after wall at the exhibit, in big stark type.

"We will build a global mind."

"We will make visible the as yet invisible."

"We will design evolution."

And my personal favourite, projected onto an immense video screen near the beginning of Mau's exhibit: "Everything=city=design=hope."

The multiple leaps built into that Maoist slogan will, like the rest of *Massive Change*, either turn visitors off or seduce them with their goofy optimism. I went back and forth before deciding to give in.

Massive Change opens with a provocative question ("Now that we can do anything, what will we do?") and a quotation from the historian Arnold J. Toynbee, who called the 20th century "an age in which human society dared to think of the welfare of the whole human race as a practical objective."

Armed with the godlike attributes of omnipotence and omni-benevolence, visitors stroll into a room filled with... Segway prototypes. The Segway, you'll recall, is Dean Kamen's fabulously clever computerized two-wheel scooter. They aren't exactly sweeping the world. You get the impression that *Massive Change* might once have opened with a tribute to the Ford Edsel or the Sony Betamax video recorder. Now that we can do anything, we'll build tilty scooters?

It gets better. A room dedicated to "efforts to visualize and share knowledge about our planet" features video of a crazily zit-infested planet Earth, with bumps popping up and vanishing all over its surface. Ah, earthquakes, their scale amplified to show how tremors rock our planet. A satellite photo of ozone depletion over Antarctica, we are told, became the spur to reducing ozone-depleting chemicals in aerosol sprays. How you look at something can determine what you do about it.

Sometimes Mau lets his visitors into the ethical dilemmas technology poses. A display on biotechnology allows visitors to vote on whether we should experiment with cloning, or bioengineer our livestock, by slipping yellow sheets of paper into big transparent bins marked "Yes" or "No." Genetically engineered livestock was getting a big "No" the day I was there.

A display of spinoffs from military technology is silly: it may be true that caffeine gum made its first appearance in soldiers' rations, but it's also spectacularly missing the point of warfare. Mau is best when he goes past detail to the big, big picture. A room celebrating the power of markets is Mau's most remarkable, because you get the impression that here, at least, his optimism offers him insight. Separate booths offer riddles that each answers with a videotape display. "Why does capitalism triumph in the West but fail everywhere else?" The answer is property. In the Philippines, too few people own their residences, so they can't trade their home for another good and have no incentive to improve it. This is a neat introduction to the ideas of the maverick Peruvian economist Hernando de Soto. And there's his photo on the back of the booth.

Another booth asks, "What is seamlessly connecting the global market?" Answer: the standardized shipping container, which Malcolm McLean invented more than half a century ago, allowing anything to be shipped anywhere. "Our most successful markets... produce a nearly seamless marriage of demand and supply that is staggeringly effective at creating and delivering anything, anytime, to anywhere, if the price is right," the wall copy reads. "The power of markets, brought to bear on the world's real problems, is the power to change the world."

It's a surprising shout to global capitalism. Yo! Logo, if you will. Mau is sneakily rehabilitating a discredited idea: human progress. M

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